



Professor Dr. Syed Arif Kamal

PhD (Mathematical Neuroscience); MA, Johns Hopkins, Baltimore, MD, US^ε; MS, Indiana, Bloomington, IN, US^ε; *Ex-Convener*, NCRC[Ⓞ] (Maths), HEC[Ⓞ]; Subject Committee (Maths), National Testing Service Pak[§] Member, Expert Panel (Math.), National Curriculum Council, Ministry of Education, Govt. of Pakistan Member, AIAA[#] (US^ε) & IBRO[‡] (France); *Guest Speaker*, Harvard Medical School (US^ε) & ICTP[‡] (Italy) Member, University of Karachi Senate; Academic Council; Boards of Faculty (Arts and Education), BASR Program Convener, ETRPP[‡]; *Ex-Convener*, Subcomm. (Acad.), Education Comm., Transparency Int. Pak.[¶]

Head, Anthromath. Group*, Dept. of Mathematics[§]
Project Director, the NGDS Pilot Project[‡]
Senior-Most Professor of University
Dean, Faculties of Science & Engg.
Acting Vice Chancellor (April 2-7, 2016)
UNIVERSITY OF KARACHI[&]

Paper Mail: Office of Dean, Faculty of Science, University of Karachi, Karachi 75270, Pakistan

Link on UOK[&] Site: <http://www.uok.edu.pk/faculties/mathematics/faculty.php#kamal>

Telephones: +92 21 9926 1077 (direct); +92 21 9926 1300-15 ext. 2255 (exchange)

Homepage: <http://www.ngds-ku.org/kamal> • *e-mail:* sakamal@uok.edu.pk

Public Profile: <http://pk.linkedin.com/pub/dr-syed-arif-kamal/12/b71/400>

PUBLICATIONS

Papers, Books, Dissertations and Theses

My Philosophy of Life

While there is a will there is a way

NO handwritten notes except original signatures.
VOID unless bears original signatures on every page.
DATE and TIME of printing must match on every page.

Table of Contents

- Selected Contributions 1
- Key to Institutions 2
- Journal Papers 2
- Referee for Journals 9
- Conference Papers 9
- Manuals 26
- Books 27
- Term Paper 27
- Articles 27
- Essays/Thesis/Dissertation Completed 30
- Dissertations Supervised 30
- Dissertations (in progress) 31
- Theses Supervised 31
- Thesis (in progress) 31
- Synopsis (submitted) 31
- Conferences Chaired/Co-Chaired 32

Selected Contributions

Complete Citation on Page 3 (solo author)

Complete Citation on Page 7 (first author)

Complete Citation on Page 8 (first author)

Complete Citation on Page 8 (solo author)

Complete Citation on Page 8 (solo author)

- Snapshot of work during four decades, complete list given on pages 2-31:
- **In Search of a Definition of Childhood Obesity:** ngds-ku.org/Papers/J45.pdf
Published in *Int. Journal of Biology and Biotech.* — Thomson-Reuters -Indexed Journal
- **Effects of Weak Electromag. Fields on Gl.-Electrocortical Act.:** ngds-ku.org/Papers/J13.pdf
Published in *Journal of Biological Physics* (Springer) — Thomson Reuters IF (2015): **1.394**
- **Spacetime Representation of Global-Electrocortical Activity:** ngds-ku.org/Papers/J08.pdf
Published in *Biological Cybernetics* (Springer) — Thomson Reuters IF (2015): **1.611**
- **Determinant of a General Tensor:** ngds-ku.org/Papers/J03.pdf
Published in *Matrix and Tensor Quarterly* (Tensor Society of Great Britain)
- **Extended Symmetries in Special theory of Relativity:** ngds-ku.org/Papers/J02.pdf
Published in *Chinese Journal of Physics* (Elsevier) — Thomson Reuters IF (2015): **0.464**

[Ⓞ]National Curriculum Revision Committee

[Ⓞ]Higher Education Commission, Govt. of Pakistan

[§]National Testing Service Pakistan <http://www.nts.org>

[#]American Institute of Aeronautics and Astronautics

[‡]International Brain Research Organization

[‡]The Abdus Salam International Center for Theoretical Physics, Trieste, Italy

[‡]The Early Talent Research Participation Program

[¶]Transparency International Pakistan

*Anthromathematics Group

[§]Department of Mathematics

[‡]National Growth and Developmental Standards for the Pakistani Children <http://ngds-ku.org>

^εUnited States (of America)

[&]University of Karachi, Karachi <http://www.uok.edu.pk>

This document contains information as of: May 20, 2016 (0000h UTC)

Signatures _____

<http://www.ngds-ku.org/kamal>

sakamal@uok.edu.pk

Page 1 of 32

Key to Institutions

Albert Einstein College
Comprehensive School
Government College
Higher Education Commission
Indiana University
The Johns Hopkins University

University of Karachi
Lund University
Ministry of Education
University of Oklahoma
Sir Syed University

■ For each item, the line containing **AUTHORSHIP(S)** mentions, in the left-hand column, name of the institution (listed, below, alphabetically), where the work was performed:

- The Albert Einstein College of Medicine, Bronx, New York 10461, United States
- Government Comprehensive High School, Mirpurkhas, Sindh, Pakistan
- Government College, Hyderabad, Sindh, Pakistan
- Higher Education Commission, Sector H-9, Islamabad, Pakistan
- Indiana University, Bloomington, Indiana 47405, United States
- The Johns Hopkins University, Homewood Campus, Baltimore, Maryland 21218, United States
- University of Karachi, University Road, Karachi 75270, Sindh, Pakistan
- University of Lund, Malmö General Hospital (Spinal Unit), S-21401, Malmö, Sweden
- Ministry of Education, Curriculum Wing, Sector H-9, Islamabad, Pakistan
- University of Oklahoma, Norman, Oklahoma 73019, United States
- The Sir Syed University of Engineering and Technology, University Road, Karachi 75300, Sindh, Pakistan

Journal Papers**2016**

Update: August 10, 2017
University of Karachi

Update: August 10, 2017
University of Karachi

University of Karachi

Abstract
PDF
University of Karachi
Update: June 21, 2017

Abstract
PDF
University of Karachi
Update: June 30, 2017

■ The entry [**J##**] preceding the title is the code assigned to the item listed:

- **J52:** Effectiveness of Proposed Risk Indicators in Scoliosis-Case Finding
Foreign-Impact-Factor Journal (Springer/Nature) — Thomson Reuters Impact Factor (2015): **1.546**
Thomson Reuters Impact Factor (2016): **1.87**
KAMAL SA, Raza SK, Sarwar M, *Spinal Cord* (under preparation)
- **J51:** Possible Validation of Mathematical Definition of Childhood Wasting based on Anthropometric Data Collected during 1998-2016
Foreign-Impact-Factor Journal (Wiley) — Thomson Reuters Impact Factor (2015): **1.647**
Thomson Reuters Impact Factor (2016): **2.043**
KAMAL SA, Ansari SA, Naz AA, *Acta Paediatrica* (under preparation)
- **J50:** CDC Percentiles of Height and Mass Scaled for the Pakistani Population: Application to Determine Build of a Gymnast
Foreign Journal
KAMAL SA, Sarwar M, Ansari SA, Naz AA, Ansari MJ, *Pamukkale Journal of Sport Sciences* (under preparation)
- **J49:** Integration of *BMI*-based-Optimal Mass and Height-Percentile-based-Optimal Mass to Propose the Sixth-Generation Solution of Childhood Obesity
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
<http://www.ngds-ku.org/pub/jourabstC.htm#J49>:
<http://www.ngds-ku.org/Papers/J49.pdf> (full text)
KAMAL SA, *International Journal of Biology and Biotechnology* (under preparation)
Accepted; expected publication: October 1, 2017
- **J48:** Psychological Testing, Physical Examination and Fitness Testing of Primary-School Students for Participation in Gymnastic Activities
Foreign Journal
<http://www.ngds-ku.org/pub/jourabstC.htm#J48>:
<http://www.ngds-ku.org/Papers/J48.pdf> (full text)
KAMAL SA, Azeemi HI, Khan SR, *Pamukkale Journal of Sport Sciences* (under preparation)
Published: **8 (2)**, 2017, 15-40

This document contains information as of: May 20, 2016 (0000h UTC)

Signatures _____

<http://www.ngds-ku.org/kamal>

sakamal@uok.edu.pk

Page 2 of 32

- Journal Papers
(continued)**
- Abstract*
PDF
University of Karachi
Update: July 1, 2017
- **J47: Medical Criteria for Induction into the Armed Forces of Pakistan: Cutoff Heights for Still-Growing Youth**
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
[http://www.ngds-ku.org/pub/jourabstC.htm#J47:](http://www.ngds-ku.org/pub/jourabstC.htm#J47)
<http://www.ngds-ku.org/Papers/J47.pdf> (full text)
KAMAL SA, Ansari SA, Sarwar M, Nazz AA, International Journal of Biology and Biotechnology (under preparation)
Published: **14 (3)**, 2017, 319-331
 - **J46: Possible Validation of Mathematical Definition of Childhood Obesity based on Anthropometric Data Collected during 1998-2013**
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
[http://www.ngds-ku.org/pub/jourabstC.htm#J46:](http://www.ngds-ku.org/pub/jourabstC.htm#J46)
<http://www.ngds-ku.org/Papers/J46.pdf> (full text)
KAMAL SA, Naz AA, Ansari SA, International Journal of Biology and Biotechnology (under preparation)
Published: **14 (2)**, 2017, 219-235
 - **J45: In Search of A Definition of Childhood Obesity**
The Fifth-Generation Solution of childhood-obesity problem
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
[http://www.ngds-ku.org/pub/jourabstC.htm#J45:](http://www.ngds-ku.org/pub/jourabstC.htm#J45)
<http://www.ngds-ku.org/Papers/J45.pdf> (full text)
KAMAL SA, International Journal of Biology and Biotechnology (under preparation)
Published: **14 (1)**, 2017, 49-67
 - **J44: Pedagogical Challenges and Opportunities in Sport and Anthromathematics**
Official Journal of Faculty of Education, University of Karachi
[http://www.ngds-ku.org/pub/jourabstB.htm#J44:](http://www.ngds-ku.org/pub/jourabstB.htm#J44)
<http://www.ngds-ku.org/Papers/J44.pdf> (full text)
KAMAL SA, Journal of Education and Research, 4, 2016, 1-30
 - **J43: Growth-and-Obesity Vector-Roadmaps of the Pakistani Children**
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
[http://www.ngds-ku.org/pub/jourabstB.htm#J43:](http://www.ngds-ku.org/pub/jourabstB.htm#J43)
<http://www.ngds-ku.org/Papers/J43.pdf> (full text)
KAMAL SA, Naz AA, Ansari SA, International Journal of Biology and Biotechnology (submitted)
Published: **13 (4)**, 2016, 93-111
 - **J42: Mathematical Modeling of Scoliosis Indicators in Growing Children**
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
[http://www.ngds-ku.org/pub/jourabstB.htm#J42:](http://www.ngds-ku.org/pub/jourabstB.htm#J42)
<http://www.ngds-ku.org/Papers/J42.pdf> (full text)
KAMAL SA, Raza SK, Sarwar M, International Journal of Biology and Biotechnology (accepted)
Published: **13 (3)**, 2016, 471-484
 - **J41: Gait Analysis of 7-10-Year-Old Children of Karachi from Nutritional-Status Perspective**
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
[http://www.ngds-ku.org/pub/jourabstB.htm#J41:](http://www.ngds-ku.org/pub/jourabstB.htm#J41)
<http://www.ngds-ku.org/Papers/J41.pdf> (full text)
KAMAL SA, Rajput MK, Ansari SA, International Journal of Biology and Biotechnology, 13 (1), 2016, 13-25
- Abstract*
PDF
University of Karachi
Update: July 1, 2017
- Abstract*
PDF
University of Karachi
Update: April 1, 2017
- Abstract*
PDF
University of Karachi
Update: January 1, 2017
- Abstract*
PDF
University of Karachi
Update: October 1, 2016
- Abstract*
PDF
University of Karachi
Update: July 1, 2016
- Abstract*
PDF
University of Karachi

- 2015**
- Abstract*
PDF
University of Karachi
- J40: Acute Malnutrition in a Child Suffering from Cardiac Problems
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
<http://www.ngds-ku.org/pub/jourabstB.htm#J40>:
<http://www.ngds-ku.org/Papers/J40.pdf> (full text)
KAMAL SA, *International Journal of Biology and Biotechnology*, **12 (4)**, 2015, 585-600
 - J39: Designing Curricula of Mathematics, which Produce Leader-Integrator of Tomorrow
Official Journal of Faculty of Education, University of Karachi
<http://www.ngds-ku.org/pub/jourabstB.htm#J39>:
<http://www.ngds-ku.org/Papers/J39.pdf> (full text)
KAMAL SA, *Journal of Education and Research*, **3**, 2015, 11-42
 - J38: Optimal-Mass Management in Obese Children
The Third-Generation Solution of childhood-obesity problem
HEC-Recognized-Y-Category, ISI-Indexed Journal
<http://www.ngds-ku.org/pub/jourabstB.htm#J38>:
<http://www.ngds-ku.org/Papers/J38.pdf> (full text)
KAMAL SA, *International Journal of Biology and Biotechnology*, **12 (3)**, 2015, 381-391
 - J37: Hairstyle, Clothing and Footwear for Gymnastic Activities in the Primary-School Setting
Foreign Journal
<http://www.ngds-ku.org/pub/jourabstB.htm#J37>:
<http://www.ngds-ku.org/Papers/J37.pdf> (full text)
KAMAL SA, Khan SA, *Pamukkale Journal of Sport Sciences*, **6 (3)**, 2015, 29-45
 - J36: Effective Decision Making for the Presence of Scoliosis
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
<http://www.ngds-ku.org/pub/jourabstB.htm#J36>:
<http://www.ngds-ku.org/Papers/J36.pdf> (full text)
KAMAL SA, Sarwar M, Razzaq UA, *International Journal of Biology and Biotechnology*, **12 (2)**, 2015, 317-328
 - J35: Generating and Validating Growth-and-Obesity Roadmaps for the Pakistani Children
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
<http://www.ngds-ku.org/pub/jourabstB.htm#J35>:
<http://www.ngds-ku.org/Papers/J35.pdf> (full text)
KAMAL SA, Ansari SA, Jamil SS, *International Journal of Biology and Biotechnology*, **12 (1)**, 2015, 47-61
- 2014**
- Abstract*
PDF
University of Karachi
- J34: KJ-Regression Model to Evaluate Optimal Masses of Extreme Cases
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
<http://www.ngds-ku.org/pub/jourabstB.htm#J34>:
<http://www.ngds-ku.org/Papers/J34.pdf> (full text)
KAMAL SA, Jamil SS, *International Journal of Biology and Biotechnology*, **11 (4)**, 2014, 623-648
 - J33: Primary-Physical-Education Practices in Pakistan and England: Health and Safety Perspectives
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
<http://www.ngds-ku.org/pub/jourabstB.htm#J33>:
<http://www.ngds-ku.org/Papers/J33.pdf> (full text)
KAMAL SA, Khan SA, *International Journal of Biology and Biotechnology*, **11 (2&3)**, 2014, 401-419
- Abstract*
PDF
University of Karachi

- Journal Papers
(continued)**
- Abstract*
PDF
University of Karachi
- J32: Stunting Induced by Wasting — Wasting Induced by Stunting: A Case Study
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
[http://www.ngds-ku.org/pub/jourabstB.htm#J32:](http://www.ngds-ku.org/pub/jourabstB.htm#J32)
<http://www.ngds-ku.org/Papers/J32.pdf> (full text)
KAMAL SA, Jamil SS, Razzaq UA, *International Journal of Biology and Biotechnology*, **11 (1)**, 2014, 147-153
- 2013**
- Abstract*
PDF
University of Karachi
- J31: A Security System Employing Edge-Based Rasterstereography
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
[http://www.ngds-ku.org/pub/jourabstA.htm#J31:](http://www.ngds-ku.org/pub/jourabstA.htm#J31)
<http://www.ngds-ku.org/Papers/J31.pdf> (full text)
Wasim M, **KAMAL SA**, Shaikh A, *International Journal of Biology and Biotechnology*, **10 (4)**, 613-630 — Corresponding Author
- 2012**
- Abstract*
PDF
University of Karachi
- J30: A Method to Generate Growth-and-Obesity Profiles of Children of Still-Growing Parents
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
[http://www.ngds-ku.org/pub/jourabstA.htm#J30:](http://www.ngds-ku.org/pub/jourabstA.htm#J30)
<http://www.ngds-ku.org/Papers/J30.pdf> (full text)
KAMAL SA, Jamil SS, *International Journal of Biology and Biotechnology*, **9 (3)**, 2012, 233-255
- 2011**
- Abstract*
PDF
University of Karachi
- J29: Growth-and-Obesity Profiles of Children of Karachi using Box-Interpolation Method
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
[http://www.ngds-ku.org/pub/jourabstA.htm#J29:](http://www.ngds-ku.org/pub/jourabstA.htm#J29)
<http://www.ngds-ku.org/Papers/J29.pdf> (full text)
KAMAL SA, Jamil N, Khan SA, *International Journal of Biology and Biotechnology*, **8 (1)**, 2011, 87-96
- 2009**
- Abstract*
PDF
University of Karachi
- J28: Concept Building in the Undergraduate Mathematics and Physics Curricula
Official Journal of Faculty of Science, University of Karachi
[http://www.ngds-ku.org/pub/jourabst.htm#J28:](http://www.ngds-ku.org/pub/jourabst.htm#J28)
<http://www.ngds-ku.org/Papers/J28.pdf> (full text)
KAMAL SA, Siddiqui KA, Naseeruddin, *Karachi University Journal of Science*, **37 (1&2)**, 2009, 1-6
- 2005**
- Abstract*
PDF
University of Karachi
- J27: A Systematic Way to Express the Equations of Straight Line in Terms of their Direction Ratios
Official Journal of Faculty of Science, University of Karachi
[http://www.ngds-ku.org/pub/jourabst.htm#J27:](http://www.ngds-ku.org/pub/jourabst.htm#J27)
<http://www.ngds-ku.org/Papers/J27.pdf> (full text)
KAMAL SA, Naseeruddin, *Karachi University Journal of Science*, **33 (1&2)**, 2005, 71-72
- 2004**
- Abstract*
PDF
University of Karachi
- J26: An Investigation of Growth Profiles of the Pakistani Children
HEC-Recognized-Y-Category, Thomson-Reuters-Indexed Journal
[http://www.ngds-ku.org/pub/jourabst.htm#J26:](http://www.ngds-ku.org/pub/jourabst.htm#J26)
<http://www.ngds-ku.org/Papers/J26.pdf> (full text)
KAMAL SA, Firdous S, Alam SJ, *the International Journal of Biology and Biotechnology*, **1 (4)**, 2004, 709-717

- 2002**
- J25: The Human Heart as a System of Standing Waves
Official Journal of Faculty of Science, University of Karachi
<http://www.ngds-ku.org/pub/jourabst.htm#J25>:
<http://www.ngds-ku.org/Papers/J25.pdf> (full text)
KAMAL SA, Siddiqui KA, Karachi University Journal of Science, 30 (1&2), 2002, 55-63
- Abstract*
PDF
University of Karachi
- 2000**
- J24: The Sixth Paradigm of Physics
Official Journal of Faculty of Science, University of Karachi
<http://www.ngds-ku.org/pub/jourabst.htm#J24>:
<http://www.ngds-ku.org/Papers/J24.pdf> (full text)
KAMAL SA, Siddiqui KA, Naseeruddin, Karachi University Journal of Science, 28 (2), 2000, 11-16
 - J23: The Quantum-Mechanical Interpretation of Time
Official Journal of Faculty of Science, University of Karachi
<http://www.ngds-ku.org/pub/jourabst.htm#J23>:
<http://www.ngds-ku.org/Papers/J23.pdf>
KAMAL SA, Naseeruddin, Karachi University Journal of Science, 28 (1), 2000, 95-97
- Abstract*
PDF
University of Karachi
- 1998**
- J22: Physics of Scoliosis Screening in School-Going Children
Official Journal of Faculty of Science, University of Karachi
<http://www.ngds-ku.org/pub/jourabst0.htm#J22>:
<http://www.ngds-ku.org/Papers/J22.pdf> (full text)
KAMAL SA, Naseeruddin, Wasim M, Firdous S, Karachi University Journal of Science, 26 (1), 1998, 5-12
 - J21: Accuracy and Precision of Moiré Fringe Topography System
Official Journal of Faculty of Science, GC University, Lahore
<http://www.ngds-ku.org/pub/jourabst0.htm#J21>:
<http://www.ngds-ku.org/Papers/J21.pdf>
Naseeruddin, **KAMAL SA, Firdous S, Journal of Natural Sciences and Mathematics, 38 (1&2), 1998, 157-166** — Corresponding Author
- Abstract*
PDF
University of Karachi
- 1997**
- J20: EEG in Weightlessness: A Theoretical Estimate
Official Journal of Faculty of Science, University of Karachi
<http://www.ngds-ku.org/pub/jourabst0.htm#J20>:
<http://www.ngds-ku.org/Papers/J20.pdf> (full text)
Ahmed SN, **KAMAL SA, Siddiqui KA, Husain SA, Naeem M, Karachi University Journal of Science, 25 (1), 1997, 19-24** — Corresponding Author
 - J19: Covariant-Generalized-Coupling Model of Global-Electrocortical Activity
Official Journal of Faculty of Science, University of Karachi
<http://www.ngds-ku.org/pub/jourabst0.htm#J19>:
<http://www.ngds-ku.org/Papers/J19.pdf> (full text)
KAMAL SA, Siddiqui KA, Karachi University Journal of Science, 25 (1), 1997, 29-39
- Abstract*
PDF
University of Karachi
- 1996**
- J18: A 3-D-Static Model of the Human Spinal Column
Official Journal of Faculty of Science, University of Karachi
<http://www.ngds-ku.org/pub/jourabst0.htm#J18>:
<http://www.ngds-ku.org/Papers/J18.pdf> (full text)
KAMAL SA, Karachi University Journal of Science, 24 (1), 1996, 29-34
 - J17: Combination of Moiré Contours and Edge-Based Algorithm to Study Motion in the Sagittal Plane (Gait Analysis)
Official Journal of Faculty of Science, University of Karachi
<http://www.ngds-ku.org/pub/jourabst0.htm#J17>:
<http://www.ngds-ku.org/Papers/J17.pdf> (full text)
KAMAL SA, Karachi University Journal of Science, 24 (2), 1996, 53-60
- Abstract*
PDF
University of Karachi

- Journal Papers
(continued)**
- Abstract*
PDF
University of Karachi
- **J16: Gait Analysis using Moiré Fringe Topography and Rasterstereography (Simultaneous Recording)**
Official Journal of Faculty of Science, University of Karachi
[http://www.ngds-ku.org/pub/jourabst0.htm#J16:](http://www.ngds-ku.org/pub/jourabst0.htm#J16)
<http://www.ngds-ku.org/Papers/J16.pdf> (full text)
KAMAL SA, Choudhry AS, Siddiqui YA, Karachi University Journal of Science, 24 (2), 1996, 7-18
- 1994**
- Abstract*
PDF
Lund University
- **J15: A Study to Test the Reproducibility of Moiré Topographs**
Official Journal of Faculty of Science, University of Karachi
[http://www.ngds-ku.org/pub/jourabst0.htm#J15:](http://www.ngds-ku.org/pub/jourabst0.htm#J15)
<http://www.ngds-ku.org/Papers/J15.pdf> (full text)
KAMAL SA, Benoni G, Willner S, Karachi University Journal of Science, 22 (1&2), 1994, 67-74
- 1993**
- Abstract*
PDF
University of Karachi
- **J14: Group Structure of a Covariant Model of Global-Electrocortical Activity**
Official Journal of Faculty of Science, University of Karachi
[http://www.ngds-ku.org/pub/jourabst0.htm#J14:](http://www.ngds-ku.org/pub/jourabst0.htm#J14)
<http://www.ngds-ku.org/Papers/J14.pdf> (full text)
Siddiqui KA, **KAMAL SA**, Husain SA, Khan NU, *Karachi University Journal of Science, 21 (1&2), 1993, 35-38*
- 1992**
- Update: August 10, 2017*
Abstract
PDF
University of Karachi
- **J13: Effects of Weak Electromagnetic Fields on Global-Electrocortical Activity**
Foreign-Impact-Factor Journal (Springer) — Thomson Reuters Impact Factor (2015): 1.394
Thomson Reuters Impact Factor (2016): **1.241**
[http://www.ngds-ku.org/pub/jourabst0.htm#J13:](http://www.ngds-ku.org/pub/jourabst0.htm#J13)
<http://www.ngds-ku.org/Papers/J13.pdf> (full text)
KAMAL SA, Siddiqui KA, Husain SA, Naeem M, Khan NU, Journal of Biological Physics, 18 (4), 1992, 261-269
 - **J12: Effects of Weak Magnetic Fields on Global-Electrocortical Activity**
Official Journal of Faculty of Science, University of Karachi
[http://www.ngds-ku.org/pub/jourabst0.htm#J12:](http://www.ngds-ku.org/pub/jourabst0.htm#J12)
<http://www.ngds-ku.org/Papers/J12.pdf> (full text)
KAMAL SA, Siddiqui KA, Husain SA, Karachi University Journal of Science, 20 (1&2), 1992, 31-35
- 1990**
- Abstract*
PDF
The Johns Hopkins University
- **J11: A Mathematical Model to Explain the Effects of Magnetic Field on Scale Formation**
Official Journal of Faculty of Science, University of Karachi
[http://www.ngds-ku.org/pub/jourabst0.htm#J11:](http://www.ngds-ku.org/pub/jourabst0.htm#J11)
<http://www.ngds-ku.org/Papers/J11.pdf> (full text)
KAMAL SA, Karachi University Journal of Science, 18 (1&2), 1990, 1-9
- 1989**
- Abstract*
PDF
University of Karachi
- **J10: Behavior of Massive Particles Near the Velocity of Light**
Official Journal of Faculty of Science, University of Karachi
[http://www.ngds-ku.org/pub/jourabst1.htm#J10:](http://www.ngds-ku.org/pub/jourabst1.htm#J10)
<http://www.ngds-ku.org/Papers/J10.pdf> (full text)
KAMAL SA, Husain SA, Karachi University Journal of Science, 17 (1&2), 1989, 111-120
 - **J09: Basic Requirements to Train a Physicist**
Foreign Journal
[http://www.ngds-ku.org/pub/jourabst1.htm#J09:](http://www.ngds-ku.org/pub/jourabst1.htm#J09)
<http://www.ngds-ku.org/Papers/J09.pdf> (full text)
KAMAL SA, Siddiqui KA, Physics Education (India), April-June 1989, pp 53-61
- Abstract*
PDF
University of Karachi

- Journal Papers**
(continued)
- Update: August 10, 2017
Abstract
PDF
University of Karachi
- 1988**
Abstract
PDF
University of Karachi
- 1987**
Abstract
PDF
University of Karachi
- 1986**
Abstract
Full Text
The Johns Hopkins University
- 1982**
Abstract
PDF
University of Oklahoma
- 1981**
Abstract
PDF
Indiana University
- Update: August 10, 2017
Abstract
PDF
Indiana University
- 1980**
Abstract
PDF
University of Karachi
- J08: Spacetime Representation of Global-Electrocortical Activity
Foreign-Impact-Factor Journal (Springer) — Thomson Reuters Impact Factor (2015): **1.611**
Thomson Reuters Impact Factor (2016): **1.716**
<http://www.ngds-ku.org/pub/jourabst1.htm#J08>:
<http://www.ngds-ku.org/Papers/J08.pdf> (full text)
KAMAL SA, Siddiqui KA, Husain SA, *Biological Cybernetics*, **60 (4)**, 1989, 307-309
 - J07: A Dimensionless-Reciprocal Lattice
Official Journal of University of Karachi
<http://www.ngds-ku.org/pub/jourabst1.htm#J07>:
<http://www.ngds-ku.org/Papers/J07.pdf> (full text)
KAMAL SA, Husain SA, *Karachi University Journal of Science*, **16 (1&2)**, 1988, 23-27
 - J06: The Direction of Qibla (Makka)
<http://www.ngds-ku.org/pub/jourabst1.htm#J06>:
<http://www.ngds-ku.org/Papers/J06.pdf> (full text)
KAMAL SA, *Science and Technology in the Muslim World*, **5 (3)**, 1987, 131-134
 - J05: Relationship of Anthropometric Measurements Taken on Clothing to Those Taken on Body
Official Journal of Faculty of Science, University of Karachi
<http://www.ngds-ku.org/pub/jourabst1.htm#J05>:
<http://www.ngds-ku.org/Papers/J05.pdf> (full text)
KAMAL SA, *Karachi University Journal of Science*, **14 (1&2)**, 1986, 35-39
 - J04: Measurement of Angle of Spinal Curvature by Moiré Topographs
Foreign Journal
<http://www.ngds-ku.org/pub/jourabst1.htm#J04>:
<http://www.ngds-ku.org/Papers/J04.pdf> (full text)
KAMAL SA, *Journal of Islamic Medical Association (USA)*, **14 (4)**, 1982, 145-149
 - J03: Determinant of a General Tensor
Foreign Journal
<http://www.ngds-ku.org/pub/jourabst1.htm#J03>:
<http://www.ngds-ku.org/Papers/J03.pdf> (full text)
KAMAL SA, *Matrix and Tensor Quarterly (UK)*, **31 (3)**, 1981, 64-66; abstract published in *Mathematical Reviews* **82j**, October 1982, 15025 (15: Linear and Multilinear Algebra: Matrix Theory), published by the American Mathematical Society
 - J02: Extended Symmetries in Special Theory of Relativity
Foreign-Impact-Factor Journal (Elsevier) — Thomson Reuters Impact Factor (2015): **0.464**
Thomson Reuters Impact Factor (2016): **0.514**
<http://www.ngds-ku.org/pub/jourabst1.htm#J02>:
<http://www.ngds-ku.org/Papers/J02.pdf> (full text)
KAMAL SA, *Chinese Journal of Physics*, **19 (4)**, 1981, 87-91
 - J01: Physical Significance & Properties of Relativistic-Effective-Mass Operator
Official Journal of Faculty of Science, GC University, Lahore
<http://www.ngds-ku.org/pub/jourabst1.htm#J01>:
<http://www.ngds-ku.org/Papers/J01.pdf> (full text)
KAMAL SA, *Journal of Natural Sciences and Mathematics*, **20 (1)**, 1980, 15-22; abstract published in *Mathematical Reviews* **81h**, August 1981, 81210 (81M: Relativistic Theory), published by the American Mathematical Society

Referee for Journals

Update: August 10, 2017

- Astrophysics and Space Science
Foreign-Impact-Factor Journal (Springer) — Thomson Reuters Impact Factor (2015): **1.678**

Thomson Reuters Impact Factor (2016): **1.622**

Update: August 10, 2017

- Acta Paediatrica
Foreign-Impact-Factor Journal (Wiley) — Thomson Reuters Impact Factor (2015): **1.647**

Thomson Reuters Impact Factor (2016): **2.043**

Update: August 10, 2017

- Clinical Biomechanics
Foreign-Impact-Factor Journal (Elsevier) — Thomson Reuters Impact Factor (2015): **1.636**

Thomson Reuters Impact Factor (2016): **1.874**

Update: August 10, 2017

- Optics and Laser Technology
Foreign-Impact-Factor Journal (Elsevier) — Thomson Reuters Impact Factor (2015): **1.879**

Thomson Reuters Impact Factor (2016): **2.109****Conference Papers****2016**

Abstract

PDF

University of Karachi

Update: November 15, 2016

Abstract

PDF

University of Karachi

Abstract

PDF

University of Karachi

Abstract

PDF

University of Karachi

Abstract

PDF

University of Karachi

- The entry [C##] preceding the title is the code assigned to this item:

- C137: Streamlining Various Definitions of Childhood Obesity

[http://www.ngds-ku.org/pub/confabstB.htm#C137:](http://www.ngds-ku.org/pub/confabstB.htm#C137)<http://www.ngds-ku.org/Presentations/Childhood-Obesity-Definitions.pdf>

KAMAL SA, *Nutrition and Health for Better Living (seminar on the occasion of the World Diabetes Day)*, the University Scholars Forum, University of Karachi, Karachi, Pakistan, November 14, 2016 — Concluding talk (to be given)

Given, session chaired by Special Assistant to CM (Sindh) for Special Education

- C136: From Drug Abuse to Substance Abuse: Nip the Evil in the Bud

[http://www.ngds-ku.org/pub/confabstB.htm#C136:](http://www.ngds-ku.org/pub/confabstB.htm#C136)<http://www.ngds-ku.org/Presentations/Substance.pdf>

KAMAL SA, *Seminar on Drug-Abuse Prevention among Youth*, Ministry of Interior and Narcotics Control and Department of Psychology, University of Karachi, Karachi, Pakistan, April 7, 2016, Inaugural Session — Vice Chancellor's Address

- C135: Statistics is Present: Mathematics is Future — True or False

[http://www.ngds-ku.org/pub/confabstB.htm#C135:](http://www.ngds-ku.org/pub/confabstB.htm#C135)<http://www.ngds-ku.org/Presentations/Statistics.pdf>

KAMAL SA, *the Fourteenth International Conference on Statistical Sciences*, Islamic Countries Society of Statistical Sciences and Jinnah Sindh Medical University, Karachi, Pakistan, March 14-16, 2016, Inaugural Session — Guest-of-Honor's Address

- C134: The Challenge of Gravitational Waves

[http://www.ngds-ku.org/pub/confabstB.htm#C134:](http://www.ngds-ku.org/pub/confabstB.htm#C134)<http://www.ngds-ku.org/Presentations/Gravitational.pdf>

KAMAL SA, *Seminar on Discovering Gravitational Waves: Theory and Experiment*, ISPA, University of Karachi, Karachi, Pakistan, March 9, 2016, Inaugural Session — Chief Guest's Address

- C133: Growth-and-Obesity Vector-Roadmaps Generated using Enhanced Anthropometric Instruments

The Fourth-Generation Solution of childhood-obesity problem[http://www.ngds-ku.org/pub/confabstB.htm#C133:](http://www.ngds-ku.org/pub/confabstB.htm#C133)<http://www.ngds-ku.org/Presentations/Vector.pdf>

KAMAL SA, Naz AA, Musafar S, Ansari SA, *the Karachi Physics Society First National Conference on Multi-Disciplinary Topics in Physics*, Department of Physics, University of Karachi, Karachi, Pakistan, February 12, 13, 2016, Concluding Session, Paper#IT-04, p 56 — Invited Lecture

**Conference Papers
(continued)**

Abstract

PDF

University of Karachi

- **C132: Strategies to Handle Over-Smart Students in Class**
Difference between genius and over-smart student elaborated
[http://www.ngds-ku.org/pub/confabstB.htm#C132:](http://www.ngds-ku.org/pub/confabstB.htm#C132)
<http://www.ngds-ku.org/Presentations/Over-Smart.pdf>
KAMAL SA, *the Karachi University Third Educational Conference (Education and Research)*, Faculty of Education, University of Karachi, Karachi, Pakistan, February 12, 2016, Inaugural Session, Paper I, p 1 — Keynote Lecture in Honor of Prof. Muhammed Idrees Khan

2015

Abstract

PDF

University of Karachi

- **C131: US-Childhood-Obesity Problem: Solutions Proposed in Pakistan**
The First- to the Third-Generation Solutions to childhood-obesity problem described
[http://www.ngds-ku.org/pub/confabstB.htm#C131:](http://www.ngds-ku.org/pub/confabstB.htm#C131)
<http://www.ngds-ku.org/Presentations/Childhood-Obesity.pdf>
KAMAL SA, *the First International Conference on Life Sciences*, MAH Qadri Biological Research Center, University of Karachi, Karachi, Pakistan, December 27-29, 2015, pp 8, 9 — Invited Lecture

Abstract

PDF

University of Karachi

- **C130: Role of Mathematics in Spotting Soft Corruption**
[http://www.ngds-ku.org/pub/confabstB.htm#C130:](http://www.ngds-ku.org/pub/confabstB.htm#C130)
<http://www.ngds-ku.org/Presentations/Soft-Corruption.pdf>
KAMAL SA, *the International Conference on Contemporary Social Sciences (ICCSS 2015)*, Faculty of Social Sciences, University of Karachi, Karachi, Pakistan, December 12, 13, 2015, Academic Session V, Paper I, p 39

Abstract

PDF

University of Karachi

- **C129: General Relativity: Past, Present and Future**
[http://www.ngds-ku.org/pub/confabstB.htm#C129:](http://www.ngds-ku.org/pub/confabstB.htm#C129)
<http://www.ngds-ku.org/Presentations/General-Relativity.pdf>
KAMAL SA, *Celebration of 100 Years of General Theory of Relativity*, Department of Physics, University of Karachi, Karachi, Pakistan, October 17, 2015, p 1 — Chief Guest's Address

Abstract

PDF

University of Karachi

- **C128: From Astronomy to Astrodynamics: A Bridge through Astromathematics**
[http://www.ngds-ku.org/pub/confabstB.htm#C128:](http://www.ngds-ku.org/pub/confabstB.htm#C128)
<http://www.ngds-ku.org/Presentations/Astromathematics15.pdf>
KAMAL SA, *the Third National Conference on Space Science and Technology (NCSST 2015)*, ISPA, University of Karachi, Karachi, Pakistan, October 5, 6, 2015, p 25 — Dr. Muhammed Ishaq Mirza Memorial Lecture

Abstract

PDF

University of Karachi

- **C127: Research Empowering Teaching for Community Development: An Example from Sport-Mathematics Research**
[http://www.ngds-ku.org/pub/confabstB.htm#C127:](http://www.ngds-ku.org/pub/confabstB.htm#C127)
<http://www.ngds-ku.org/Presentations/Research-Teaching-ComDev.pdf>
KAMAL SA, *the Karachi University Second Educational Conference (Educational Issues in the Twenty-First Century)*, Faculty of Education, University of Karachi, Karachi, Pakistan, September 2, 2015, p 1 — Keynote Lecture

2014

Abstract

PDF

University of Karachi

- **C126: Smart-Intelligent Power and Conflict Management at State-Level**
[http://www.ngds-ku.org/pub/confabstB.htm#C126:](http://www.ngds-ku.org/pub/confabstB.htm#C126)
<http://www.ngds-ku.org/Presentations/Smart-Intelligent.pdf>
KAMAL SA, *the International Conference on Challenges of Transition in Social Sciences (ICCTSS 2014)*, Faculty of Social Sciences, University of Karachi, Karachi, Pakistan, December 3, 4, 2014, Academic Session VII, Paper II, p 32

**Conference Papers
(continued)**

Abstract
PDF
University of Karachi

- C125: Growth-and-Obesity Enhanced-Roadmaps of Children
The Second-Generation Solution of childhood-obesity problem
[http://www.ngds-ku.org/pub/confabstB.htm#C125:](http://www.ngds-ku.org/pub/confabstB.htm#C125)
<http://www.ngds-ku.org/Presentations/Enhanced.pdf>
KAMAL SA, Ansari SA, Jamil SS, *the Second Conference on Anthromathematics and Sport Mathematics in the Memory of (Late) Hussain Ahmed Bilgirami (ANTHROMATHEMATICS 2014)*, Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4, 2014, abstract#Anthro14-06, p 10 — Concluding Talk
- C124: A Calibration Device for Moiré-Fringe-Topographic System
[http://www.ngds-ku.org/pub/confabstB.htm#C124:](http://www.ngds-ku.org/pub/confabstB.htm#C124)
<http://www.ngds-ku.org/Presentations/Device.pdf>
KAMAL SA, Ansari SA, *the Second Conference on Anthromathematics and Sport Mathematics in the Memory of (Late) Hussain Ahmed Bilgirami (ANTHROMATHEMATICS 2014)*, Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4, 2014, abstract#Anthro14-05, p 9
- C123: Crystal-Structure-Concept-Based Modeling of the Human-Spinal Column Validated through 3-D-Bone Scanning
[http://www.ngds-ku.org/pub/confabstB.htm#C123:](http://www.ngds-ku.org/pub/confabstB.htm#C123)
<http://www.ngds-ku.org/Presentations/Spinal.pdf>
KAMAL SA, Sarwar M, Rajput MK, *the Second Conference on Anthromathematics and Sport Mathematics in the Memory of (Late) Hussain Ahmed Bilgirami (ANTHROMATHEMATICS 2014)*, Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4, 2014, abstract#Anthro14-04, p 8
- C122: Gait Analysis of 7-10-Year-Old Children to Investigate Correlation between Spastic Gait and Hip Weakness
[http://www.ngds-ku.org/pub/confabstB.htm#C122:](http://www.ngds-ku.org/pub/confabstB.htm#C122)
<http://www.ngds-ku.org/Presentations/Spastic.pdf>
KAMAL SA, Rajput MK, Jamil SS, *the Second Conference on Anthromathematics and Sport Mathematics in the Memory of (Late) Hussain Ahmed Bilgirami (ANTHROMATHEMATICS 2014)*, Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4, 2014, abstract#Anthro14-03, p 7
- C121: A Security-cum-Background Rating System through Face Recognition employing Edge-Based Rasterstereography
[http://www.ngds-ku.org/pub/confabstB.htm#C121:](http://www.ngds-ku.org/pub/confabstB.htm#C121)
<http://www.ngds-ku.org/Presentations/Rating.pdf>
KAMAL SA, Wasim M, *the Second Conference on Anthromathematics and Sport Mathematics in the Memory of (Late) Hussain Ahmed Bilgirami (ANTHROMATHEMATICS 2014)*, Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4, 2014, abstract#Anthro14-02, p 6 — Invited Lecture
- C120: The Evolution of Anthromathematics (2010-2014)
[http://www.ngds-ku.org/pub/confabstB.htm#C120:](http://www.ngds-ku.org/pub/confabstB.htm#C120)
<http://www.ngds-ku.org/Presentations/Anthromathematics2010-4.pdf>
KAMAL SA, Jamil SS, Razzaq UA, *the Second Conference on Anthromathematics and Sport Mathematics in the Memory of (Late) Hussain Ahmed Bilgirami (ANTHROMATHEMATICS 2014)*, Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4, 2014, abstract#Anthro14-01, p 5 — the Hussain Ahmed Bilgirami Memorial Lecture

Abstract
PDF
University of Karachi

Abstract
PDF
University of Karachi

Abstract
PDF
University of Karachi

Abstract
PDF
University of Karachi

Abstract
PDF
University of Karachi

**Conference Papers
(continued)**

Abstract
PDF
University of Karachi

- **C119: The Extended-Q System**
Matching of both position and velocity vectors to achieve corrections
[http://www.ngds-ku.org/pub/confabstB.htm#C119:](http://www.ngds-ku.org/pub/confabstB.htm#C119)
<http://www.ngds-ku.org/Presentations/ExtendedQ.pdf>
KAMAL SA, *the Second Conference on Mathematical Sciences (CMS 2014)*, Department of Mathematics, University of Karachi, Karachi, Pakistan, March 20, 2014, Paper#CMS14-12, p 3 — Richard H. Battin Memorial Lecture
- **C118: Two-Body Problem in the Hyperbolic-Astrodyynamical-Coördinate Mesh**
[http://www.ngds-ku.org/pub/confabstB.htm#C118:](http://www.ngds-ku.org/pub/confabstB.htm#C118)
<http://www.ngds-ku.org/Presentations/Hyperbolic.pdf>
KAMAL SA, Latif S, *the Second Conference on Mathematical Sciences (CMS 2014)*, Department of Mathematics, University of Karachi, Karachi, Pakistan, March 20, 2014, paper#CMS14-09, p 3
- **C117: Effective Decision Making for Presence of Scoliosis Based on Moiré Fringe Topography**
[http://www.ngds-ku.org/pub/confabstB.htm#C117:](http://www.ngds-ku.org/pub/confabstB.htm#C117)
<http://www.ngds-ku.org/Presentations/Decision.pdf>
KAMAL SA, Sarwar M, Haider A, *the Second Conference on Mathematical Sciences (CMS 2014)*, Department of Mathematics, University of Karachi, Karachi, Pakistan, March 20, 2014, paper#CMS14-05, p 2
- **C116: Accuracy, Precision and Reproducibility in Measurements of Masses (Weights) to Least Counts of 0.01 kg**
[http://www.ngds-ku.org/pub/confabstB.htm#C116:](http://www.ngds-ku.org/pub/confabstB.htm#C116)
<http://www.ngds-ku.org/Presentations/Accuracy.pdf>
KAMAL SA, Razzaq UA, *the Second Conference on Mathematical Sciences (CMS 2014)*, Department of Mathematics, University of Karachi, Karachi, Pakistan, March 20, 2014, paper#CMS14-03, p 2
- **C115: The Challenges of Anthroimaging**
[http://www.ngds-ku.org/pub/confabstB.htm#C115:](http://www.ngds-ku.org/pub/confabstB.htm#C115)
<http://www.ngds-ku.org/Presentations/Anthroimaging.pdf>
KAMAL SA, *the Second Conference on Mathematical Sciences (CMS 2014)*, Department of Mathematics, University of Karachi, Karachi, Pakistan, March 20, 2014, Paper#CMS14-02, p 2 — Prof. Dr. Iqbal Ahmed Khan Memorial Lecture
- **C114: Astromathematics: A New Branch of Mathematics**
[http://www.ngds-ku.org/pub/confabstB.htm#C114:](http://www.ngds-ku.org/pub/confabstB.htm#C114)
<http://www.ngds-ku.org/Presentations/Astromathematics.pdf>
KAMAL SA, *the Second Conference on Mathematical Sciences (CMS 2014)*, Department of Mathematics, University of Karachi, Karachi, Pakistan, March 20, 2014, Paper#CMS14-01, p 2 — Opening Lecture

2013

Abstract
PDF
University of Karachi

- **C113: Designing Curricula, which Produce Leader-Integrator of Tomorrow**
[http://www.ngds-ku.org/pub/confabstA.htm#C113:](http://www.ngds-ku.org/pub/confabstA.htm#C113)
<http://www.ngds-ku.org/Presentations/Leader-Integrator.pdf>
KAMAL SA, *the Karachi University Educational Conference*, Faculty of Education, University of Karachi, Karachi, Pakistan, December 12, 2013, abstract#2, pp 3, 4 — Keynote Lecture
- **C112: Fitness**
[http://www.ngds-ku.org/pub/confabstA.htm#C112:](http://www.ngds-ku.org/pub/confabstA.htm#C112)
<http://www.ngds-ku.org/Presentations/Fitness.pdf>
KAMAL SA, Khan SA, *the First Conference on Anthromathematics in the Memory of (Late) Syed Firdous (ANTHROMATHEMATICS 2013)*, Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4 & 5, 2013, abstract#Anthro13-18, p 24

Abstract
PDF
University of Karachi

**Conference Papers
(continued)**

Abstract
PDF
University of Karachi

- C111: Study of Relative Variation of Area of Heart-Sound Triangle in 3-to-10-Year-Old Boys

<http://www.ngds-ku.org/pub/confabstA.htm#C111>:

<http://www.ngds-ku.org/Presentations/Heart.pdf>

KAMAL SA, Wasim M, the First Conference on Anthromathematics in the Memory of (Late) Syed Firdous (ANTHROMATHEMATICS 2013), Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4 & 5, 2013, abstract#Anthro13-17, p 23

- C110: From Simple X Rays to Bone Scanning using Backscatter-X Rays: A Journey of 113 Years

Abstract
<http://www.ngds-ku.org/pub/confabstA.htm#C110>:

PDF
<http://www.ngds-ku.org/Presentations/Scan.pdf>

University of Karachi

KAMAL SA, the First Conference on Anthromathematics in the Memory of (Late) Syed Firdous (ANTHROMATHEMATICS 2013), Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4 & 5, 2013, abstract#Anthro13-16, p 22 — the Syed Firdous Memorial Lecture

- C109: Gait as Indicator of CNS Problems as well as Trunk and Lower-Limb Deformities

Abstract
<http://www.ngds-ku.org/pub/confabstA.htm#C109>:

PDF
<http://www.ngds-ku.org/Presentations/Gait.pdf>

University of Karachi

KAMAL SA, Rajput MK, Jamil SS, the First Conference on Anthromathematics in the Memory of (Late) Syed Firdous (ANTHROMATHEMATICS 2013), Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4 & 5, 2013, abstract#Anthro13-15, p 21

- C108: Increasing Height through Diet, Exercise and Lifestyle Adjustment

Abstract
<http://www.ngds-ku.org/pub/confabstA.htm#C108>:

PDF
http://www.ngds-ku.org/Presentations/Height_Management.pdf

University of Karachi

KAMAL SA, Manzoor CSM, Khan SA, the First Conference on Anthromathematics in the Memory of (Late) Syed Firdous (ANTHROMATHEMATICS 2013), Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4 & 5, 2013, abstract#Anthro13-12, p 18

- C107: Moiré Fringe Topography in Scoliosis Detection and Management

Abstract
<http://www.ngds-ku.org/pub/confabstA.htm#C107>:

PDF
<http://www.ngds-ku.org/Presentations/Moire.pdf>

University of Karachi

KAMAL SA, Sarwar M, Raza SK, the First Conference on Anthromathematics in the Memory of (Late) Syed Firdous (ANTHROMATHEMATICS 2013), Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4 & 5, 2013, abstract#Anthro13-10, p 16

- C106: From Anthropometry to Anthrodynamics: A Bridge through Anthromathematics

Abstract
<http://www.ngds-ku.org/pub/confabstA.htm#C106>:

PDF
<http://www.ngds-ku.org/Presentations/Anthrodynamics.pdf>

University of Karachi

KAMAL SA, Jamil SS, the First Conference on Anthromathematics in the Memory of (Late) Syed Firdous (ANTHROMATHEMATICS 2013), Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4 & 5, 2013, abstract#Anthro13-09, p 15 — Opening Lecture

- C105: Diet-Based Interventions and Vitamin-D Deficiency

Abstract
<http://www.ngds-ku.org/pub/confabstA.htm#C105>:

PDF
<http://www.ngds-ku.org/Presentations/VitaminD.pdf>

University of Karachi

KAMAL SA, Manzoor CSM, Khan SA, the First Conference on Anthromathematics in the Memory of (Late) Syed Firdous (ANTHROMATHEMATICS 2013), Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4 & 5, 2013, abstract#Anthro13-08, p 14

This document contains information as of: May 20, 2016 (0000h UTC)

**Conference Papers
(continued)**

Abstract
PDF
University of Karachi

• **C104: Sensitivity and Specificity of Screening Tests**

Relative sensitivity and relative specificity introduced

[http://www.ngds-ku.org/pub/confabstA.htm#C104:](http://www.ngds-ku.org/pub/confabstA.htm#C104)

<http://www.ngds-ku.org/Presentations/Screening.pdf>

KAMAL SA, Sultan F, Jamil SS, *the First Conference on Anthromathematics in the Memory of (Late) Syed Firdous (ANTHROMATHEMATICS 2013)*, Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4 & 5, 2013, abstract#Anthro13-07, p 13

• **C103: Importance of Standardization of Anthropometric Protocols**

[http://www.ngds-ku.org/pub/confabstA.htm#C103:](http://www.ngds-ku.org/pub/confabstA.htm#C103)

<http://www.ngds-ku.org/Presentations/Anthropometry.pdf>

KAMAL SA, Razzaq UA, Jamil SS, *the First Conference on Anthromathematics in the Memory of (Late) Syed Firdous (ANTHROMATHEMATICS 2013)*, Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4 & 5, 2013, abstract#Anthro13-06, p 12

• **C102: Cumulative-Scoliosis-Risk Weightage (CSRW): Designing Preventive Strategies**

[http://www.ngds-ku.org/pub/confabstA.htm#C102:](http://www.ngds-ku.org/pub/confabstA.htm#C102)

<http://www.ngds-ku.org/Presentations/CSRW.pdf>

KAMAL SA, Sarwar M, Razzaq UA, *the First Conference on Anthromathematics in the Memory of (Late) Syed Firdous (ANTHROMATHEMATICS 2013)*, Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4 & 5, 2013, abstract#Anthro13-05, p 11

• **C101: Rasterstereography in Scoliosis Detection and Management**

[http://www.ngds-ku.org/pub/confabstA.htm#C101:](http://www.ngds-ku.org/pub/confabstA.htm#C101)

<http://www.ngds-ku.org/Presentations/Rasterstereography.pdf>

KAMAL SA, Sarwar M, Razzaq UA, *the First Conference on Anthromathematics in the Memory of (Late) Syed Firdous (ANTHROMATHEMATICS 2013)*, Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4 & 5, 2013, abstract#Anthro13-04, p 10

• **C100: Optimal-Weight Management through Diet, Exercise and Lifestyle Adjustment**

[http://www.ngds-ku.org/pub/confabstA.htm#C100:](http://www.ngds-ku.org/pub/confabstA.htm#C100)

http://www.ngds-ku.org/Presentations/Optimal_Weight.pdf

KAMAL SA, Burki S, Jamil SS, *the First Conference on Anthromathematics in the Memory of (Late) Syed Firdous (ANTHROMATHEMATICS 2013)*, Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4 & 5, 2013, abstract#Anthro13-03, p 9

• **C99: Growth-and-Obesity Roadmaps of Children**

The First-Generation Solution of childhood-obesity problem

[http://www.ngds-ku.org/pub/confabstA.htm#C99:](http://www.ngds-ku.org/pub/confabstA.htm#C99)

<http://www.ngds-ku.org/Presentations/Roadmap.pdf>

KAMAL SA, Jamil SS, Ansari SA, *the First Conference on Anthromathematics in the Memory of (Late) Syed Firdous (ANTHROMATHEMATICS 2013)*, Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4 & 5, 2013, abstract#Anthro13-02, p 8

• **C98: Anthromathematics of the Human Spinal Column**

[http://www.ngds-ku.org/pub/confabstA.htm#C98:](http://www.ngds-ku.org/pub/confabstA.htm#C98)

<http://www.ngds-ku.org/Presentations/Scoliosis.pdf>

KAMAL SA, Sarwar M, Razzaq UA, *the First Conference on Anthromathematics in the Memory of (Late) Syed Firdous (ANTHROMATHEMATICS 2013)*, Department of Mathematics, University of Karachi, Karachi, Pakistan and Government College, Hyderabad, Pakistan, September 4 & 5, 2013, abstract#Anthro13-01, p 7 — Prof. Dr. Z. K. Kazi and Prof. Dr. M. A. Shah Memorial Lecture

Abstract
PDF
University of Karachi

Abstract
PDF
University of Karachi

Abstract
PDF
University of Karachi

Abstract
PDF
University of Karachi

Abstract
PDF
University of Karachi

Abstract
PDF
University of Karachi

- Conference Papers
(continued)**
- Abstract*
PDF
University of Karachi
- **C97: 3-D-Spinal-Column-Surface Analysis (Height and Curvature Maps) by Combining Moiré Fringe Topography and Rasterstereography with Backscatter-X-Ray-Scanning Technology**
[http://www.ngds-ku.org/pub/confabstA.htm#C97:](http://www.ngds-ku.org/pub/confabstA.htm#C97)
<http://www.ngds-ku.org/Presentations/Backscatter.pdf>
KAMAL SA, *the First Undergraduate National Computing Conference*, Usman Institute of Technology, Karachi, Pakistan, May 30, 2013 — Keynote Lecture
- 2012**
- Abstract*
PDF
University of Karachi
- **C96: Crystal-Structure Concepts Applied to Static and Dynamic Modeling of the Human-Spinal Column**
[http://www.ngds-ku.org/pub/confabstA.htm#C96:](http://www.ngds-ku.org/pub/confabstA.htm#C96)
<http://www.ngds-ku.org/Presentations/BZU1.pdf>
KAMAL SA, Sarwar M, Rajput MK, *the International Conference on Condensed-Matter Physics and Engineering*, the Bahauddin Zakaria University, Multan, Pakistan, December 27-29, 2012, p 81
 - **C95: Cross-Lattice Formulation Applied to Liquid-Crystal Structure**
[http://www.ngds-ku.org/pub/confabstA.htm#C95:](http://www.ngds-ku.org/pub/confabstA.htm#C95)
<http://www.ngds-ku.org/Presentations/BZU.pdf>
KAMAL SA, Rajput MK, Ansari SA, *the International Conference on Condensed-Matter Physics and Engineering*, the Bahauddin Zakaria University, Multan, Pakistan, December 27-29, 2012, p 9 — Invited Paper
 - **C94: Two-Body Problem in the Elliptic-Astroynamical-Coördinate Mesh**
[http://www.ngds-ku.org/pub/confabstA.htm#C94:](http://www.ngds-ku.org/pub/confabstA.htm#C94)
<http://www.ngds-ku.org/Presentations/ISPA.pdf>
KAMAL SA, Latif S, *the First National Conference on Space Science (NCSS 2012)*, Plenary Session I, ISPA, University of Karachi, Karachi, Pakistan, October 8, 9, 2012, p 22 — Invited Lecture
 - **C93: Econodynamics: Modeling Money Flow as a Substance-Like Quantity**
[http://www.ngds-ku.org/pub/confabstA.htm#C93:](http://www.ngds-ku.org/pub/confabstA.htm#C93)
<http://www.ngds-ku.org/Presentations/Econodynamics.pdf>
KAMAL SA, *the Seventh Symposium on Computational Complexities, Innovations and Solutions (CCIS 2012)*, COMSATS Institute of Information Technology, Abbotabad, KP, Pakistan, May 7, 8, 2012 — Invited Lecture
 - **C92: A Cardless Authorization and Charge System**
[http://www.ngds-ku.org/pub/confabstA.htm#C92:](http://www.ngds-ku.org/pub/confabstA.htm#C92)
<http://www.ngds-ku.org/Presentations/Cardless.pdf>
KAMAL SA, Wasim M, Saeed F, *the Seventh Symposium on Computational Complexities, Innovations and Solutions (CCIS 2012)*, COMSATS Institute of Information Technology, Abbotabad, KP, Pakistan, May 7, 8, 2012
- 2011**
- Abstract*
PDF
University of Karachi
- **C91: Cross Lattice: A Dimensionless-Reciprocal Lattice for Condensed-Matter Physics**
[http://www.ngds-ku.org/pub/confabstA.htm#C91:](http://www.ngds-ku.org/pub/confabstA.htm#C91)
<http://www.ngds-ku.org/Presentations/Physics3-1.pdf>
KAMAL SA, *the International Conference on Physics and the World of Today in the Memory of Prof. Dr. Sheikh Ansar Husain*, Department of Physics, University of Karachi, Karachi, Pakistan, abstract#44, December 21, 22, 2011, p 65— Prof. Dr. Sheikh Ansar Husain Memorial Lecture
 - **C90: Anthromathematics of MUAC (Mid-Upper-Arm Circumference): Investigation of Reproducibility**
[http://www.ngds-ku.org/pub/confabstA.htm#C90:](http://www.ngds-ku.org/pub/confabstA.htm#C90)
<http://www.ngds-ku.org/Presentations/Physics3-2.pdf>
KAMAL SA, Saeed N, Saleem MS, Siddiqui SA, Naveed S, Saleem R, *the International Conference on Physics and the World of Today in the Memory of Prof. Dr. Sheikh Ansar Husain*, Department of Physics, University of Karachi, Karachi, Pakistan, abstract#45, December 21, 22, 2011, p 66 — Invited Lecture
- Abstract*
PDF
University of Karachi

This document contains information as of: May 20, 2016 (0000h UTC)

**Conference Papers
(continued)**Abstract
PDF

University of Karachi

- **C89: Verification of Conversion Formulae for MUAC (Mid-Upper-Arm Circumference) on Skin and Clothing**
<http://www.ngds-ku.org/pub/confabstA.htm#C89>
<http://www.ngds-ku.org/Presentations/Physics3-3.pdf>
KAMAL SA, Rashid SF, Rehman U, Mumtaz N, Aziz Z, Naqvi NF, *the International Conference on Physics and the World of Today in the Memory of Prof. Dr. Sheikh Ansar Husain*, Department of Physics, University of Karachi, Karachi, Pakistan, abstract#42, December 21, 22, 2011, p 62 — Poster Presentation

Abstract
PDF

University of Karachi

- **C88: Prevalence of Obesity among BS-Final-Year Students**
<http://www.ngds-ku.org/pub/confabstA.htm#C88>
<http://www.ngds-ku.org/Presentations/Physics3-4.pdf>
KAMAL SA, Nasim A, Burki S, Jamil SS, Shahid S, Ali SW, Hashmi KK, Fatima A, Hidayat SS, Dilshad S, Batool S, Khan MA, *the International Conference on Physics and the World of Today in the Memory of Prof. Dr. Sheikh Ansar Husain*, Department of Physics, University of Karachi, Karachi, Pakistan, abstract#43, December 21, 22, 2011, pp 63, 64 — Poster Presentation

Abstract
PDF

University of Karachi

- **C87: 3-D-Optical Imaging (Moiré Fringe topography and Rasterstereography) in Diabetic-Foot Care of Children**

<http://www.ngds-ku.org/pub/confabstA.htm#C87>
<http://www.ngds-ku.org/Presentations/JPMC.pdf>**KAMAL SA**, Rajput MK, Khan SA, *Symposium on Diabetic Foot Care*, Department of Orthopedic Surgery, Jinnah Postgraduate Medical Center, Najmuddin Auditorium, JPMC, Karachi, Pakistan, November 19, 2011, p 1Abstract
PDF

University of Karachi

- **C86: Curbing Corruption in Pre-University Education**

<http://www.ngds-ku.org/pub/confabstA.htm#C86>
<http://www.ngds-ku.org/Presentations/TIP.pdf>**KAMAL SA**, *Seminar on Curbing Corruption in the Education Sector*, the Education Committee, Transparency International Pakistan, Ambassador III, Hotel Marriott, Karachi, Pakistan, October 22, 2011, p 1Abstract
PDF

University of Karachi

- **C85: Anthromathematics: A New Branch of Mathematics**

<http://www.ngds-ku.org/pub/confabstA.htm#C85>
<http://www.ngds-ku.org/Presentations/Anthromath.pdf>**KAMAL SA**, *the Sixth Symposium on Computational Complexities, Innovations and Solutions (CCIS 2011)*, COMSATS Institute of Information Technology, Abbotabad, KP, Pakistan, abstract#1, May 9, 10, 2011, pp 13, 14 — Keynote LectureAbstract
PDF

University of Karachi

- **C84: Intelligent Ledger Balance using Theory of Matrices**

<http://www.ngds-ku.org/pub/confabstA.htm#C84>
<http://www.ngds-ku.org/Presentations/Islamuddin.pdf>**KAMAL SA**, *the Sixth Symposium on Computational Complexities, Innovations and Solutions (CCIS 2011)*, COMSATS Institute of Information Technology, Abbotabad, KP, Pakistan, May 9, 10, 2011, abstract#2, pp 14, 15 — the Islamuddin Memorial Lecture (nominated by Vice Chancellor, University of Karachi)Abstract
PDF

University of Karachi

- **C83: The Fourth Law of Thermodynamics**

<http://www.ngds-ku.org/pub/confabstA.htm#C83>
<http://www.ngds-ku.org/Papers/C83.pdf> (full text)**KAMAL SA**, *the Pakistan Institute of Physics Conference (PIPC 2011)*, University of Engineering and Technology, Lahore, Pakistan, March 28-30, 2011, paper#PIPC-11-25, p 4 — the Salim Ahmed Memorial Lecture (nominated by Vice Chancellor, University of Karachi)**2010**Abstract
PDF

University of Karachi

- **C82: Generalization of Principle of Equivalence**

<http://www.ngds-ku.org/pub/confabstA.htm#C82>
<http://www.ngds-ku.org/Presentations/Ghori.pdf>**KAMAL SA**, *the Fifth Symposium on Computational Complexities, Innovations and Solutions (CCIS 2010)*, COMSATS Institute of Information Technology, Abbotabad, KP, Pakistan, May 10, 11, 2010, abstract#2, p 11 — Prof. Dr. Q. K. Ghori Memorial Lecture (nominated by Vice Chancellor, University of Karachi)

**Conference Papers
(continued)**

Abstract
PDF
University of Karachi

- C81: An Airport-Passenger-Screening System Based on Emitted IR and Thermal Radiation

[http://www.ngds-ku.org/pub/confabst.htm#C81:](http://www.ngds-ku.org/pub/confabst.htm#C81)
<http://www.ngds-ku.org/Presentations/Security.pdf>

KAMAL SA, *the Fifth Symposium on Computational Complexities, Innovations and Solutions*, COMSATS Institute of Information Technology, Abbotabad, KP, Pakistan, May 10, 11, 2010, abstract#24, p 21

Abstract
PDF

University of Karachi

- C80: Air-Spacecraft of the Third Millennium

[http://www.ngds-ku.org/pub/confabstA.htm#C80:](http://www.ngds-ku.org/pub/confabstA.htm#C80)
<http://www.ngds-ku.org/Presentations/ASTM.pdf>

KAMAL SA, *the Fifth Symposium on Computational Complexities, Innovations and Solutions (CCIS 2010)*, COMSATS Institute of Information Technology, Abbotabad, KP, Pakistan, May 10, 11, 2010, abstract#25, p 21

Abstract
PDF

University of Karachi

- C79: Mathematics in the Life Sciences

[http://www.ngds-ku.org/pub/confabst.htm#C79:](http://www.ngds-ku.org/pub/confabst.htm#C79)
<http://www.ngds-ku.org/Presentations/Firdous.pdf>

KAMAL SA, *the First National Conference on Mathematical Sciences (CMS 2010)*, Golden-Jubilee Celebration, Department of Mathematics, University of Karachi, Karachi, Pakistan, abstract#10, March 22, 2010, p 19 — the Syed Firdous Memorial Lecture

Abstract
PDF

University of Karachi

- C78: A Minkowski-Type Metric for Curved Spacetime

[http://www.ngds-ku.org/pub/confabstA.htm#C78:](http://www.ngds-ku.org/pub/confabstA.htm#C78)
<http://www.ngds-ku.org/Presentations/GenRelGrav.pdf>

KAMAL SA, *Conference on General Relativity and Gravitation*, Department of Mathematics, University of the Punjab, Lahore, Pakistan, February 11-13, 2010, Abstract#15, p 12 — Prof. Dr. Khursheed Alam Khan Memorial Lecture (nominated by Vice Chancellor, University of Karachi)

2009

Abstract
PDF

University of Karachi

- C77: Mathematics of Experimentation

[http://www.ngds-ku.org/pub/confabst.htm#C77:](http://www.ngds-ku.org/pub/confabst.htm#C77)
<http://www.ngds-ku.org/Presentations/Physics2.pdf>

KAMAL SA, *National Conference on Physics and the World of Today*, in memory of Prof. Dr. Muhammed Rafi and Prof. Dr. Muhammed Razi Hussain, Department of Physics, University of Karachi, December 16, 17, 2009, abstract#1, pp 9-10 — Prof. Dr. Muhammed Rafi and Prof. Dr. Muhammed Razi Hussain Memorial Lecture

- C76: Biomedical Applications of 3-D-Optical Imaging and Image Processing

[http://www.ngds-ku.org/pub/confabst.htm#C76:](http://www.ngds-ku.org/pub/confabst.htm#C76)
<http://www.ngds-ku.org/Presentations/INSC.pdf>

KAMAL SA, *the Thirty-Fourth International Nathiagali Summer College on Physics and Contemporary Needs*, Activity III: Biophotonics, Photodynamics and Microscopy, National Center for Physics, Islamabad, Pakistan, June 29-July 4, 2009

Abstract
PDF

University of Karachi

- C75: Avoiding Infinities from the Lorentz and the Poincaré Transformations

[http://www.ngds-ku.org/pub/confabst.htm#C75:](http://www.ngds-ku.org/pub/confabst.htm#C75)
<http://www.ngds-ku.org/Presentations/CIIT.pdf>

KAMAL SA, *the Fourth Symposium on Computational Complexities, Innovations and Solutions (CCIS 2009)*, COMSATS Institute of Information Technology, Abbotabad KP, Pakistan, May 11, 12, 2009, p 16 — Invited Lecture (nominated by Vice Chancellor, University of Karachi)

Abstract
PDF

University of Karachi

- C74: Gauss's Law: Choice of the Gaussian Surface and Form of the Electric-Field Vector

[http://www.ngds-ku.org/pub/confabst.htm#C74:](http://www.ngds-ku.org/pub/confabst.htm#C74)
<http://www.ngds-ku.org/Presentations/Gauss.pdf>

KAMAL SA, *Workshop on Physics*, Government College, Hyderabad, Pakistan, April 20-24, 2009 — Invited Lecture

This document contains information as of: May 20, 2016 (0000h UTC)

Signatures _____

<http://www.ngds-ku.org/kamal>

sakamal@uok.edu.pk

Page 17 of 32

- Conference Papers
(continued)**
Abstract
PDF
University of Karachi
- C73: The Integrated Educational System: A Pre-University Educational System for the Third Millennium
http://www.ngds-ku.org/Pub/confabst.htm#C73:
http://www.ngds-ku.org/Presentations/Education.pdf
KAMAL SA, *the Sindh Educational Conference*, the Jamia Millia Government College of Education, Karachi, Pakistan, January 15, 2009, abstract#1, p 1 — Keynote Lecture
- 2008**
- Abstract
PDF
University of Karachi
- C72: The Multi-Stage-Lambert Scheme for Steering a Satellite-Launch Vehicle
http://www.ngds-ku.org/pub/confabst.htm#C72:
http://www.ngds-ku.org/Papers/C72.pdf (full text)
KAMAL SA, *Proceedings of the Twelfth IEEE International Multitopic Conference (IEEE INMIC 2008)*, edited by Anis MK, Khan MK, Zaidi SJH, Bahria University, Karachi, Pakistan, December 23, 24, 2008, pp 294-300 — Invited Paper
- Abstract
PDF
University of Karachi
- C71: Role of Mathematics in Sports Sciences and Technologies
http://www.ngds-ku.org/pub/confabst.htm#C71:
http://www.ngds-ku.org/Presentations/Sports.pdf
KAMAL SA, *the Thirty-Fifth All Pakistan Science Conference (Genomics for Health and Prosperity)*, University of Karachi, Karachi, Pakistan, December 20-23, 2008, abstract#72, p 75; *Karachi University Journal of Science* **36 (1&2)**, 2008, 5
- Abstract
PDF
University of Karachi
- C70: From Mathematics to Technology: A Bridge through Physics and Engineering
http://www.ngds-ku.org/pub/confabst.htm#C70:
http://www.ngds-ku.org/Papers/C70.pdf (full text)
KAMAL SA, *Proceedings of the International Conference on Physics and the World of Today*, edited by Jafri MA, Naqvi SM, Department of Physics, University of Karachi, Karachi, Pakistan, December 18-20, 2008, pp 32-39 — Invited Lecture
- Abstract
PDF
University of Karachi
- C69: Role of Moiré Fringe Topography and Rasterstereography in the Management of Back Pain
http://www.ngds-ku.org/pub/confabst.htm#C69:
http://www.ngds-ku.org/Presentations/Back_Pain.pdf
KAMAL SA, *the First National Conference on Headache and Back Pain*, Session III, Karachi, Pakistan, October 11, 2008
- Abstract
PDF
University of Karachi
- C68: Pattern Recognition using Moiré Fringe Topography and Rasterstereography
http://www.ngds-ku.org/pub/confabst.htm#C68:
http://www.ngds-ku.org/Papers/C68.pdf (full text)
KAMAL SA, *Proceedings of the International Symposium on Biometrics and Security Technologies (IEEE ISBAST 2008)*, Bahria University, Islamabad, Pakistan, April 23, 24, 2008, pp 1-7 — Invited Paper
- 2006**
- Abstract
PDF
University of Karachi
- C67: Incorporating Cross-Range Error in the Lambert Scheme
http://www.ngds-ku.org/pub/confabst.htm#C67:
http://www.ngds-ku.org/Papers/C67.pdf (full text)
KAMAL SA, *Proceedings of the Tenth National Aeronautical Conference*, edited by Sheikh SR, Khan AM, Pakistan Air Force Academy, Risalpur, KP, Pakistan, April 20, 21, 2006, pp 255-263
- Abstract
PDF
University of Karachi
- C66: The Multi-Stage-Q System and the Inverse-Q System for Possible Application in Satellite-Launch Vehicle (SLV)
http://www.ngds-ku.org/pub/confabst.htm#C66:
http://www.ngds-ku.org/Papers/C66.pdf (full text)
KAMAL SA, Mirza A, *Proceedings of the Fourth International Bhurban Conference on Applied Sciences and Technologies (IBCAST 2005)*, June 13-18, 2005, Volume 3, Control and Simulation, edited by Hussain SI, Munir A, Kayani J, Samar R, Khan MA, National Center for Physics, Bhurban, KP, Pakistan, 2006, pp 27-33 (nominated by Vice Chancellor, University of Karachi)

This document contains information as of: May 20, 2016 (0000h UTC)

- 2005**
- Abstract*
University of Karachi
- **C65: Vision of the Academic Community of Science and Physics Concepts at High School**
<http://www.ngds-ku.org/pub/confabst.htm#C65>:
Ara J, **KAMAL SA**, Rahim T, Naseeruddin, *the International Conference on Physics for World and Society*, Celebration of World Year of Physics and the Third Annual Session of Rajasthan Physics Association, University of Rajasthan, Jaipur, India, December 2-4, 2005, abstract#67, p 54
 - **C64: Ellipse-Orientation Steering: A Control Law for Spacecrafts and Satellite-Launch Vehicles (SLV)**
<http://www.ngds-ku.org/pub/confabst.htm#C64>:
KAMAL SA, *Space Science and Challenges of the Twenty-First Century*, ISPA-SUPARCO Collaborative Seminar (in connection with World Space Week 2005), University of Karachi, Karachi, Pakistan, November 21, 2005 — Invited Lecture
 - **C63: Mathematics Research, Teaching and Community Outreach in University of Karachi: Challenges and Opportunities**
<http://www.ngds-ku.org/pub/confabst.htm#C63>:
KAMAL SA, *Informative Mathematical Event*, Karachi Mathematical Association and Department of Mathematics, University of Karachi, Karachi, Pakistan, April 30, 2005
- Abstract*
University of Karachi
- 2004**
- Abstract*
University of Karachi
- **C62: Mathematics Research and Teaching in University of Karachi: Challenges and Opportunities**
<http://www.ngds-ku.org/pub/confabst.htm#C62>:
KAMAL SA, *the Winter Conference in Mathematics*, Center for Advanced Studies in Mathematics, LUMS (the Lahore University of Management Sciences), Lahore, Pakistan, December 4, 5, 2004, abstract#25, p 18
 - **C61: Strong Noether's Theorem: Applications in Astrodynamics**
<http://www.ngds-ku.org/pub/confabst.htm#C61>:
KAMAL SA, *the Second Symposium on Cosmology, Astrophysics and Relativity*, Center for Advanced Mathematics and Physics, NUST, Rawalpindi, Pakistan, October 4-6, 2004, p 2
 - **C60: Use of Astrodynamical Coördinates to Study Bounded-Keplerian Motion**
<http://www.ngds-ku.org/pub/confabst.htm#C60>:
KAMAL SA, *the Fifth International Pure Mathematics Conference*, the Quaid-é-Azam University and the Pakistan Mathematical Society, Islamabad, Pakistan, August 20-22, 2004, abstract#31, p 37 (nominated by Vice Chancellor, University of Karachi)
 - **C59: Industrial and Business Mathematics in the Third Millennium**
<http://www.ngds-ku.org/pub/confabst.htm#C59>:
KAMAL SA, *MIBM Grand Seminar: Industrial and Business Mathematics in the Third Millennium*, Department of Mathematics, University of Karachi, Karachi, Pakistan, May 17, 2004, p 1 — Concluding Talk
 - **C58: Mathematical Modeling of Physiological Systems**
<http://www.ngds-ku.org/pub/confabst.htm#C58>:
KAMAL SA, *the First World Conference on Twenty-First Century Mathematics*, School of Mathematical Sciences, GC University, Lahore, Pakistan, March 18-20, 2004, abstract#67, pp 19-20
- Abstract*
University of Karachi
- 2003**
- Abstract*
PDF
University of Karachi
- **C57: The Training of a Physicist: From Concept Building to Problem-Solving Skills**
<http://www.ngds-ku.org/pub/confabst.htm#C57>:
<http://www.ngds-ku.org/Papers/C57.pdf> (full text)
KAMAL SA, *the Second International Conference on Physics Education*, Center of Physics Education, National Center for Physics and Department of Physics, University of Karachi, Karachi, Pakistan, February 7-9, 2003 — Concluding Talk + Recommendations of the Conference

**Conference Papers
(continued)**Abstract
PDF

University of Karachi

- **C56: Incompleteness of Cross-Product Steering and a Mathematical Formulation of Extended-Cross-Product Steering**
<http://www.ngds-ku.org/pub/confabst.htm#C56>:
<http://www.ngds-ku.org/Papers/C56.pdf> (full text)
KAMAL SA, *Proceedings of the First International Bhurban Conference on Applied Sciences and Technologies (IBCAST 2002)*, June 10-15, 2002, Volume 1, Advanced Materials, Computational Fluid Dynamics and Control Engineering, edited by Hoorani HR, Munir A, Samar R, Zahir S, National Center for Physics, Bhurban, KP, Pakistan, 2003, pp 167-177
- **C55: Dot-Product Steering: A New Control Law for Satellites and Spacecrafts**
<http://www.ngds-ku.org/pub/confabst.htm#C55>:
<http://www.ngds-ku.org/Papers/C55.pdf> (full text)
KAMAL SA, *Proceedings of the First International Bhurban Conference on Applied Sciences and Technologies (IBCAST 2002)*, June 10-15, 2002, Volume 1, Advanced Materials, Computational Fluid Dynamics and Control Engineering, edited by Hoorani HR, Munir A, Samar R, Zahir S, National Center for Physics, Bhurban, KP, Pakistan, 2003, pp 178-184

Abstract
PDF

University of Karachi

2002

Abstract

University of Karachi

- **C54: The Early-Childhood-Integrated-Developmental Examination (ECIDE) for 3-to-8-Year-Old Children**
<http://www.ngds-ku.org/pub/confabst.htm#C54>:
KAMAL SA, *the Aga Khan University National Sciences Research Symposium: Early Childhood Care and Development*, Karachi, Pakistan, September 23, 24, 2002, abstract#17, p 32 — Poster Presentation

Abstract

University of Karachi

- **C53: The NGDS (National Growth and Developmental Standards for the Pakistani Children) Pilot Project: Aiming at the Future of Pakistan**
<http://www.ngds-ku.org/pub/confabst.htm#C53>:
KAMAL SA, Firdous S, Alam SJ, *the Aga Khan University National Sciences Research Symposium: Early Childhood Care and Development*, Karachi, Pakistan, September 23, 24, 2002, abstract#13, p 26

Abstract

PDF

University of Karachi

- **C52: The NGDS Pilot Project: A Software to Analyze Growth of a Child (A Telemedicine Perspective)**
<http://www.ngds-ku.org/pub/confabst.htm#C52>:
<http://www.ngds-ku.org/Papers/C52.pdf> (full text)
KAMAL SA, Alam SJ, Firdous S, National Telemedicine Conference Pakistan, Technology Resource Mobilization Unit (TreMU), Ministry of Science and Technology, Government of Pakistan, Islamabad, Pakistan, June 22, 2002, p 2

Abstract

University of Karachi

- **C51: A Precedence Graph for the Physical Examination of Children**
<http://www.ngds-ku.org/pub/confabst.htm#C51>:
KAMAL SA, Alam SJ, Firdous S, National Telemedicine Conference Pakistan, Technology Resource Mobilization Unit (TreMU), Ministry of Science and Technology, Government of Pakistan, Islamabad, Pakistan, June 22, 2002, p 2

Abstract

University of Karachi

- **C50: An Influence Graph for the Physical Examination of Children**
<http://www.ngds-ku.org/pub/confabst.htm#C50>:
KAMAL SA, Alam SJ, Firdous S, *the Aga Khan University PGME Conference: Complexity Science and Health Care*, Karachi, Pakistan, May 31, June 1, 2002 — Poster Presentation

Abstract

University of Karachi

- **C49: The NGDS (National Growth and Developmental Standards for the Pakistani Children) Pilot Project: Dealing with a Complex System**
<http://www.ngds-ku.org/pub/confabst.htm#C49>:
KAMAL SA, Firdous S, Alam SJ, *the Aga Khan University PGME Conference: Complexity Science and Health Care*, Karachi, Pakistan, May 31, June 1, 2002 — Poster Presentation

**Conference Papers
(continued)**

Abstract
University of Karachi

Abstract
University of Karachi

1998
Abstract
PDF
University of Karachi

1997
Abstract
University of Karachi

Abstract
University of Karachi

1996
Abstract
University of Karachi

Abstract
University of Karachi

1995
Abstract
PDF
Sir Syed University

1993
Abstract
University of Karachi

- C48: The NGDS Pilot Project: Anthropometry of the Pakistani Children
<http://www.ngds-ku.org/pub/confabst.htm#C48>:
KAMAL SA, Firdous S, *the Sixteenth International Biennial Conference of Pakistan Pediatric Association*, Karachi, Pakistan, February 14-17, 2002, abstract#PO-26, p 127 — Poster Presentation
- C47: The NGDS Pilot Project: Modeling Growth of Pakistani Children
<http://www.ngds-ku.org/pub/confabst.htm#C47>:
KAMAL SA, Firdous S, *the Sixteenth International Biennial Conference of Pakistan Pediatric Association*, Karachi, Pakistan, February 14-17, 2002
- C46: 3-D Optical Imaging and Image Processing (Biomedical Applications)
<http://www.ngds-ku.org/pub/confabst0.htm#C46>:
<http://www.ngds-ku.org/Papers/C46.pdf> (full text)
KAMAL SA, *Proceedings of the International Workshop on Recent Advances in Computer Vision*, edited by Laghari JR, Naqvi AA, Rajput AQ, Sangi NA, Shah MA, SZABIST, Karachi, Pakistan, January 1, 2, 1998, pp 86-95
- C45: Planetary-Orbit Modeling based on Astrodynamical Coördinates
<http://www.ngds-ku.org/pub/confabst0.htm#C45>:
KAMAL SA, *the Pakistan Institute of Physics International Conference (PIPC 1997)*, Lahore, Pakistan, March 30-April 3, 1997, abstract#P2, pp 28-29 — Poster Presentation
- C44: The Sixth Paradigm of Physics: Mathematical Formulation
<http://www.ngds-ku.org/pub/confabst0.htm#C44>:
KAMAL SA, Siddiqui KA, *the Pakistan Institute of Physics International Conference (PIPC 1997)*, Lahore, Pakistan, March 30-April 3, 1997, abstract#2, p 11
- C43: Physics of Screening Procedures to Detect Trunk Deformities
<http://www.ngds-ku.org/pub/confabst0.htm#C43>:
Kamal SA, Naseeruddin, Wasim M, *the Third Annual Symposium of the Aga Khan University: Impact of Research on Health, Education & Community Development*, Karachi, Pakistan, September 21, 22, 1996, serial#50, abstract#P-19, p 115 — Poster Presentation
- C42: 3-D-Dynamic Modeling of the Human Spinal Column
<http://www.ngds-ku.org/pub/confabst0.htm#C42>:
KAMAL SA, *the Twenty-First International Nathiagali Summer College on Physics and Contemporary Needs*, First Week: Mathematical Modeling and Simulation, Nathiagali, KP, Pakistan, June 27-July 11, 1996 — Poster Presentation
- C41: Computer-Based Analysis of Human Gait using Moiré Fringe Topography
<http://www.ngds-ku.org/pub/confabst0.htm#C41>:
<http://www.ngds-ku.org/Papers/C41.pdf> (full text)
Yosufzai MAK, **KAMAL SA**, Zubairi JA, *Proceedings of the Second International Workshop on Computer Vision and Parallel Processing*, edited by Khan GN, Naqvi AA, Shah MA, the Quaid-é-Azam University, Islamabad, Pakistan, January 2-5, 1995, pp 60-71
- C40: A Mathematical Model of Electrical & Magnetic Activities of Human Brain
<http://www.ngds-ku.org/pub/confabst0.htm#C40>:
KAMAL SA, *the Eleventh Multi-Topic International Symposium of IEEP (Institution of Electrical Engineers)*, Karachi, Pakistan, February 10,11, 1993

Conference Papers**(continued)**

Abstract

PDF

University of Karachi

- **C39: Modeling of the Heart Function**
Heart shape modeled as a deformed ellipsoid of revolution
<http://www.ngds-ku.org/pub/confabst0.htm#C39>:
<http://www.ngds-ku.org/Papers/C39.pdf> (full text)
KAMAL SA, Siddiqui KA, *Proceedings of the Symposium on Trends in Physics*, September 26, 27, 1992, edited by Siddiqui KA, Department of Physics, University of Karachi, Karachi, Pakistan, 1993, pp 107-112

- **C38: Modeling of Heart Function**
<http://www.ngds-ku.org/pub/confabst0.htm#C38>:
KAMAL SA, *the Seventeenth International Nathiagali Summer College on Physics and Contemporary Needs*, First Week: Computational Physics, Nathiagali, KP, Pakistan, June 25-July 9, 1992, abstract#16, pp 22-23
- **C37: Electrodynamics of the Brain**
<http://www.ngds-ku.org/pub/confabst0.htm#C37>:
Siddiqui KA, **KAMAL SA**, *the Seventeenth International Nathiagali Summer College on Physics and Contemporary Needs*, Nathiagali, KP, Pakistan, June 25-July 9, 1992, abstract#24, p 28 — Poster Presentation

- **C36: Role of Moiré Fringe Topography in Skeletal Examination of School Athlete**
<http://www.ngds-ku.org/pub/confabst0.htm#C36>:
Akram M, **KAMAL SA**, *the International Congress and Exposition on Sports Medicine and Human Performance*, Vancouver, Canada, April 16-20, 1991, paper #36, p 2 — Poster Presentation

- **C35: Neurophysics: A Beginner's Viewpoint**
<http://www.ngds-ku.org/pub/confabst0.htm#C35>:
<http://www.ngds-ku.org/Papers/C35.pdf> (full text)
Siddiqui KA, **KAMAL SA**, Khan NU, *Proceedings of the Second National Symposium on Frontiers in Physics*, December 26-31, 1988, edited by Murtaza G, Baig MA, the Quaid-é-Azam University, Islamabad, Pakistan, 1990, pp 285-305
- **C34: Reproducibility of Moiré Topographs**
<http://www.ngds-ku.org/pub/confabst0.htm#C34>:
<http://www.ngds-ku.org/Papers/C34.pdf> (full text)
KAMAL SA, in *Surface Topography and Body Deformity*, Proceedings of the Fifth International Symposium, Vienna, Austria, September 29-October 1, 1988, edited by Neugebauer H, Windischbauer G, Gustav Fischer Verlag, Stuttgart and New York, 1990, pp 151-153
- **C33: A Comparison of Back Moiré Topographs of Children in Sitting and Standing Positions**
<http://www.ngds-ku.org/pub/confabst0.htm#C33>:
<http://www.ngds-ku.org/Papers/C33.pdf> (full text)
KAMAL SA, Bukhari N, Akram M, in *Surface Topography and Body Deformity*, Proceedings of the Fifth International Symposium, Vienna, Austria, September 29-October 1, 1988, edited by Neugebauer H, Windischbauer G, Gustav Fischer Verlag, Stuttgart and New York, 1990, pp 77-78
- **C32: A Comparison of Side Moiré Topographs of Children in Standing, Sitting and Bending Positions**
<http://www.ngds-ku.org/pub/confabst0.htm#C32>:
<http://www.ngds-ku.org/Papers/C32.pdf> (full text)
KAMAL SA, Bukhari N, Akram M, in *Surface Topography and Body Deformity*, Proceedings of the Fifth International Symposium, Vienna, Austria, September 29-October 1, 1988, edited by Neugebauer H, Windischbauer G, Gustav Fischer Verlag, Stuttgart and New York, 1990, pp 79-80

1992

Abstract

University of Karachi

Abstract

University of Karachi

1991

Abstract

Albert Einstein College

1990

Abstract

PDF

University of Karachi

Abstract

PDF

University of Karachi

Abstract

PDF

University of Karachi

Abstract

PDF

University of Karachi

- 1989**
Abstract
PDF
 University of Karachi
- **C31: Solution of the Einstein Equation in Cosmology**
[http://www.ngds-ku.org/pub/confabst1.htm#C31:](http://www.ngds-ku.org/pub/confabst1.htm#C31)
<http://www.ngds-ku.org/Papers/C31.pdf> (full text)
KAMAL SA, *Proceedings of the Second Seminar on Albert Einstein*, March 14-16, 1987, edited by Siddiqui KA, Karachi, Pakistan, 1989, pp 77-82
 - **C30: Moiré, Raster and EEG Studies of Epileptics During the Washable-Memory Period**
[http://www.ngds-ku.org/pub/confabst1.htm#C30:](http://www.ngds-ku.org/pub/confabst1.htm#C30)
<http://www.ngds-ku.org/Papers/C30.pdf> (full text)
KAMAL SA, Akram M, Siddiqui KA, Khan NU, *the Seventh International Conference on Biomagnetism*, New York University, New York, United States, August 14-18, 1989, paper#AS-34, p 3 — Poster Presentation
- Abstract*
PDF
 University of Karachi
- 1988**
Abstract
 University of Karachi
- **C29: Moiré Topography for the Study of Neurological Disorders**
[http://www.ngds-ku.org/pub/confabst1.htm#C29:](http://www.ngds-ku.org/pub/confabst1.htm#C29)
KAMAL SA, Akram M, Bukhari N, *the Second National Symposium on Frontiers in Physics*, the Quaid-é-Azam University, Islamabad, Pakistan, December 26-31, 1988
- 1987**
Abstract
PDF
 University of Karachi
- **C28: A Survey of School and Pre-University Physics Education in Pakistan**
[http://www.ngds-ku.org/pub/confabst1.htm#C28:](http://www.ngds-ku.org/pub/confabst1.htm#C28)
<http://www.ngds-ku.org/Papers/C28.pdf> (full text)
 Siddiqui KA, **KAMAL SA**, in *Physics Education in Asia*, Proceedings of the Regional Physics Education Symposium and the Aspen General Conference, October 14-17, 1987, edited by Aidid SB, Ismail MZ, Koh AK, Singh MM, Kuala Lumpur, Malaysia, pp 81-89
 - **C27: How to Cope with Different Systems of Units?**
[http://www.ngds-ku.org/pub/confabst1.htm#C27:](http://www.ngds-ku.org/pub/confabst1.htm#C27)
<http://www.ngds-ku.org/Papers/C27.pdf> (full text)
 Bukhari N, **KAMAL SA**, *Proceedings of the Third Workshop on Teaching of Physics*, December 26-28, 1987, edited by Hasnain AF, Karachi, Pakistan, pp 38-50 — Corresponding Author
 - **C26: Moiré Topography for the Study of Multiple Curves of Spine**
[http://www.ngds-ku.org/pub/confabst1.htm#C26:](http://www.ngds-ku.org/pub/confabst1.htm#C26)
<http://www.ngds-ku.org/Papers/C26.pdf> (full text)
KAMAL SA, in *Surface Topography and Spinal Deformity*, Proceedings of the Fourth International Symposium, Mont Sainte Marie, Québec, Canada, September 27-30, 1986, edited by Stokes IAF, Pekelsky JR, Moreland MS, Gustav Fischer Verlag, 1987, Stuttgart and New York, pp 43-50
- Abstract*
PDF
 The Johns Hopkins University
- 1986**
Abstract
PDF
 University of Karachi
- **C25: Physics Makes the Deaf and the Dumb Equations of Mathematics to Speak**
[http://www.ngds-ku.org/pub/confabst1.htm#C25:](http://www.ngds-ku.org/pub/confabst1.htm#C25)
<http://www.ngds-ku.org/Papers/C25.pdf> (full text)
 Siddiqui KA, **KAMAL SA**, *Proceedings of the Second Workshop on Teaching of Physics*, edited by Hasnain AF, Karachi, Pakistan, December 27, 28, 1986, pp 40-49 — Corresponding Author
 - **C24: How to Develop Creative Thinking and Critical Analysis?**
 Creative-thinking habits and critical-analysis abilities need to be cultivated
[http://www.ngds-ku.org/pub/confabst1.htm#C24:](http://www.ngds-ku.org/pub/confabst1.htm#C24)
<http://www.ngds-ku.org/Papers/C24.pdf> (full text)
KAMAL SA, Siddiqui KA, *Proceedings of the Second Workshop on Teaching of Physics*, edited by Hasnain AF, Karachi, Pakistan, December 27, 28, 1986, pp 51-56
- Abstract*
PDF
 University of Karachi

- 1983**
- **C23: Determination of Degree of Correction of Spinal Deformity by Moiré Topographs**
[http://www.ngds-ku.org/pub/confabst1.htm#C23:](http://www.ngds-ku.org/pub/confabst1.htm#C23)
<http://www.ngds-ku.org/Papers/C23.pdf> (full text)
KAMAL SA, in *Moiré Fringe Topography and Spinal Deformity*, Proceedings of the Second International Symposium, Münster, Germany, September 12-15, 1982, edited by Drerup B, Frobin W, Hierholzer E, Gustav Fischer Verlag, Stuttgart and New York, 1983, pp 117-126
 - **C22: Moiré Fringe Topography and the Spinal Deformity**
[http://www.ngds-ku.org/pub/confabst1.htm#C22:](http://www.ngds-ku.org/pub/confabst1.htm#C22)
<http://www.ngds-ku.org/Papers/C22.pdf> (full text)
KAMAL SA, *the National Guard Eighth Saudi Medical Conference*, Riyadh, Kingdom of Saudi Arabia, October 30-November 3, 1983, p 192
- University of Oklahoma
 Abstract
 PDF
- 1982**
- **C21: An Experimental Test for the Behavior of Massive Particles Near and Beyond the Speed of Light**
[http://www.ngds-ku.org/pub/confabst1.htm#C21:](http://www.ngds-ku.org/pub/confabst1.htm#C21)
<http://www.ngds-ku.org/Papers/C21.pdf> (full text)
KAMAL SA, *Spring Meeting of the American Physical Society*, Washington, DC, United States, April 26-29, 1982, abstract# Dyc11, in *Bulletin of the American Physical Society* **27** (4), 503 — Poster Presentation
 - **C20: Modifications in Electrical Typewriters and Computer Terminals**
[http://www.ngds-ku.org/pub/confabst1.htm#C20:](http://www.ngds-ku.org/pub/confabst1.htm#C20)
<http://www.ngds-ku.org/Papers/C20.pdf> (full text)
KAMAL SA, *Spring Meeting of the American Physical Society*, Washington, DC, United States, April 26-29, 1982, abstract#Dyc10, in *Bulletin of the American Physical Society* **27** (4), 503 — Poster Presentation
 - **C19: Improvements in Instruments for Anthropometric Measurements**
[http://www.ngds-ku.org/pub/confabst1.htm#C19:](http://www.ngds-ku.org/pub/confabst1.htm#C19)
<http://www.ngds-ku.org/Papers/C19.pdf> (full text)
KAMAL SA, *Spring Meeting of the American Physical Society*, Washington, DC, United States, April 26-29, 1982, abstract# DYc4, in *Bulletin of the American Physical Society* **27** (4), 502 — Poster Presentation
 - **C18: The Use of Holographic Techniques to Obtain Moiré Topographic Fringes of the Human Body**
[http://www.ngds-ku.org/pub/confabst1.htm#C18:](http://www.ngds-ku.org/pub/confabst1.htm#C18)
<http://www.ngds-ku.org/Papers/C18.pdf> (full text)
 El-Sayyad MM, **KAMAL SA**, *Spring Meeting of the American Physical Society*, Washington, DC, United States, April 26-29, 1982, abstract#DYc4, in *Bulletin of the American Physical Society* **27** (4), 502 — Poster Presentation
 - **C17: A New Process for Patient Alignment**
[http://www.ngds-ku.org/pub/confabst1.htm#C17:](http://www.ngds-ku.org/pub/confabst1.htm#C17)
<http://www.ngds-ku.org/Papers/C17.pdf> (full text)
KAMAL SA, *March Meeting of the American Physical Society*, Dallas, Texas, United States, March 8-12, 1982, abstract#GY16, in *Bulletin of the American Physical Society* **27** (3), 301 — Poster Presentation
 - **C16: Moiré Topography for the Measurement of Angle of Spinal Curvature in Three Dimensions**
[http://www.ngds-ku.org/pub/confabst1.htm#C16:](http://www.ngds-ku.org/pub/confabst1.htm#C16)
<http://www.ngds-ku.org/Papers/C16.pdf> (full text)
KAMAL SA, *March Meeting of the American Physical Society*, Dallas, Texas, United States, March 8-12, 1982, abstract#GY15 — in *Bulletin of the American Physical Society* **27** (3), 301 — Poster Presentation
- Indiana University
 Abstract
 PDF
- Indiana University
 Abstract
 PDF
- Indiana University
 Abstract
 PDF
- Indiana University
 Abstract
 PDF
- Indiana University
 Abstract
 PDF
- Indiana University
 Abstract
 PDF

**Conference Papers
(continued)**

- Abstract*
PDF
Indiana University
- **C15: Effective Mass in the Relativistic Range**
Expression of effective mass generalized for high-speed electrons
<http://www.ngds-ku.org/pub/confabst1.htm#C15>:
<http://www.ngds-ku.org/Papers/C15.pdf> (full text)
KAMAL SA, Husain SA, March Meeting of the American Physical Society, Dallas, Texas, United States, March 8-12, 1982, abstract#GY13, in *Bulletin of the American Physical Society* **27 (3)**, 300 — Poster Presentation
 - **C14: A Generalization of the Covariant-Effective-Mass Tensor**
<http://www.ngds-ku.org/pub/confabst1.htm#C14>:
<http://www.ngds-ku.org/Papers/C14.pdf> (full text)
KAMAL SA, Husain SA, March Meeting of the American Physical Society, Dallas, Texas, United States, March 8-12, 1982, abstract#GY14, in *Bulletin of the American Physical Society* **27 (3)**, 300 — Poster Presentation
 - **C13: Beyond the Speed of Light**
<http://www.ngds-ku.org/pub/confabst1.htm#C13>:
<http://www.ngds-ku.org/Papers/C13.pdf> (full text)
KAMAL SA, Annual Joint APS/AAPT Meeting of the American Physical Society, San Francisco, California, United States, January 25-28, 1982, abstract#GX13, in *Bulletin of the American Physical Society* **27(1)**, 33 — Poster Presentation
- 1981**
- Abstract*
PDF
Indiana University
- **C12: Cobb's Angle Measurement by Moiré Topographs**
<http://www.ngds-ku.org/pub/confabst1.htm#C12>:
<http://www.ngds-ku.org/Papers/C12.pdf> (full text)
El-Sayyad MM, **KAMAL SA, Proceedings of Thirty-Fourth Annual Conference on Engineering in Medicine & Biology**, Houston, United States, volume 23, September 21-23, 1981, abstract#30.7, p 311
 - **C11: The Use of Moiré Topographs for Detection of Orthopedic Defects in Children of Age Group Four to Seven Years**
<http://www.ngds-ku.org/pub/confabst1.htm#C11>:
<http://www.ngds-ku.org/Papers/C11.pdf> (full text)
KAMAL SA, El-Sayyad MM, the Twenty-Third Annual Meeting of the American Association of Physicists in Medicine, Boston, Massachusetts, United States, August 9-13, 1981, paper#T7 — Presented by Title; *Medical Physics* **8 (4)**, 1981, 549
 - **C10: Possibility of Massive Particles Traveling with the Velocity of Light**
<http://www.ngds-ku.org/pub/confabst1.htm#C10>:
<http://www.ngds-ku.org/Papers/C10.pdf> (full text)
KAMAL SA, Annual Meeting of the American Physical Society, New York, New York, United States, January 26-29, 1981, abstract#JF8, in *Bulletin of the American Physical Society* **26 (1)**, 47
- Abstract*
PDF
Indiana University
- 1980**
- Abstract*
PDF
Indiana University
- **C09: Experimental Verification of Relation Connecting Anthropometric Measurements Taken on Clothing to Those Taken on Body**
<http://www.ngds-ku.org/pub/confabst1.htm#C09>:
<http://www.ngds-ku.org/Papers/C09.pdf> (full text)
KAMAL SA, El-Sayyad MM, Proceedings of the Biomechanics Symposium, Indiana University, Bloomington, United States, edited by Cooper JM, Haven B, October 26-28, 1980, p 346 — Poster Presentation
 - **C08: Moiré Topography for Detection of Orthopedic Defects**
<http://www.ngds-ku.org/pub/confabst1.htm#C08>:
<http://www.ngds-ku.org/Papers/C08.pdf> (full text)
KAMAL SA, Lindseth RE, Periodic Structures, Moiré Patterns and Diffraction Phenomena, Proceedings of the Society of Photo-Optical Instrumentation Engineers (SPIE), San Diego, California, United States, edited by Chi CH, Loewen EG, O'Bryan III CL, volume 240, July 29-August 1, 1980, pp 293-295, reviewed by Wyant JC, University of Arizona, as part of review of *Periodic Structures, Moiré Patterns and Diffraction Phenomena*, in *Medical Physics* **9 (2)**, 1982, 301-302
- Abstract*
PDF
Indiana University

- 1979**
Abstract
PDF
Karachi University of Karachi
- C07: Luxon-Bradyon Transformation
[http://www.ngds-ku.org/pub/confabst2.htm#C07:](http://www.ngds-ku.org/pub/confabst2.htm#C07)
<http://www.ngds-ku.org/Papers/C07.pdf> (full text)
KAMAL SA, Husain SA, *the Nineteenth Annual Science Conference*, the Quaid-é-Azam University, Islamabad, Pakistan, October 17-19, 1979, p 9 (Session of Physical Sciences) — in Urdu
 - C06: A 4 x 4 Representation of REMO (Relativistic-Effective-Mass Operator) for Bradyons
Abstract
PDF
University of Karachi
[http://www.ngds-ku.org/pub/confabst2.htm#C06:](http://www.ngds-ku.org/pub/confabst2.htm#C06)
<http://www.ngds-ku.org/Papers/C06.pdf> (full text)
Ali L, Husain SA, **KAMAL SA**, Al-Kurdi ZDM, *the Nineteenth Annual Science Conference*, the Quaid-é-Azam University, Islamabad, Pakistan, October 17-19, 1979, p 8 (Session of Physical Sciences) — in Urdu
 - C05: A 2 x 2 Representation of REMO (Relativistic-Effective-Mass Operator) for Bradyons
Abstract
PDF
University of Karachi
[http://www.ngds-ku.org/pub/confabst2.htm#C05:](http://www.ngds-ku.org/pub/confabst2.htm#C05)
<http://www.ngds-ku.org/Papers/C05.pdf> (full text)
Husain SA, Al-Kurdi ZDM, **KAMAL SA**, Ali L, *the Nineteenth Annual Science Conference*, the Quaid-é-Azam University, Islamabad, Pakistan, October 17-19, 1979, p 8 (Session of Physical Sciences) — in Urdu
 - C04: Moiré Contour Recorder
Abstract
PDF
University of Karachi
[http://www.ngds-ku.org/pub/confabst2.htm#C04:](http://www.ngds-ku.org/pub/confabst2.htm#C04)
<http://www.ngds-ku.org/Papers/C04.pdf> (full text)
KAMAL SA, Yosufzai MAK, *the Nineteenth Annual Science Conference*, the Quaid-é-Azam University, Islamabad, Pakistan, October 17-19, 1979, abstract#8, p 5 (Session of Medicine and Pharmacy) — in Urdu
- 1978**
Abstract
PDF
University of Karachi
- C03: Cross Lattice and Eigenfunctions
[http://www.ngds-ku.org/pub/confabst2.htm#C03:](http://www.ngds-ku.org/pub/confabst2.htm#C03)
<http://www.ngds-ku.org/Papers/C03.pdf> (full text)
KAMAL SA, Husain SA, *All Pakistan Mathematical Conference*, the NED University of Engineering and Technology, Karachi, Pakistan, November 6-8, 1978, p 4 (Academic Session 4: Applied Mathematics and Engineering Mathematics)
 - C02: Relativistically-Streaming Plasmas Containing Dyons
Abstract
PDF
University of Karachi
[http://www.ngds-ku.org/pub/confabst2.htm#C02:](http://www.ngds-ku.org/pub/confabst2.htm#C02)
<http://www.ngds-ku.org/Papers/C02.pdf> (full text)
Husain SA, **KAMAL SA**, *All Pakistan Mathematical Conference*, the NED University of Engineering and Technology, Karachi, Pakistan, November 6-8, 1978, p 4 (Academic Session 4: Applied Mathematics and Engineering Mathematics)
- 1972**
Abstract
PDF
Government College
- C01: Radioactive-Decay Law and its Consequences
[http://www.ngds-ku.org/pub/confabst2.htm#C01:](http://www.ngds-ku.org/pub/confabst2.htm#C01)
<http://www.ngds-ku.org/Papers/C01.pdf> (full text)
KAMAL SA, *the Thirteenth Annual Science Conference*, University of Karachi, Karachi, Pakistan, March 11-16, 1972 (Session of Physical Sciences) — in Urdu
- Manuals**
- The first manual was developed during trainings conducted for *Tawana Pakistan* and Department of Special Education, University of Karachi
- 2006**
PDF
University of Karachi
- M02: Manual for Obtaining Anthropometric Measurements
http://www.ngds-ku.org/ngds_folder/M02.pdf (full text)
KAMAL SA, *Manual*, Karachi, Pakistan, May 23, 2006 — Version 9.11 released on April 7, 2016
- 1998**
University of Karachi
- M01: The Early-Childhood-Integrated-Developmental Examination for 3-to-8-Year-Old Children
KAMAL SA, *Manual for Testing*, Karachi, Pakistan, May 23, 1998

This document contains information as of: May 20, 2016 (0000h UTC)

- Books** ■ The entry [B##] preceding the title is the code assigned to this item:
- 2008** • B08: Mathematics — Revised Curriculum
PDF <http://www.ngds-ku.org/hec/math-booklet-final-2008.pdf> (full text)
BS Scheme of Studies
Higher Education Commission **KAMAL SA**, Convener, National Curriculum Revision Committee in Mathematics, *Higher Education Commission*, Islamabad, Pakistan, 2008
- Ministry of Education • B07: National Curriculum for General Mathematics — Grades XI-XII (Humanities Group)
KAMAL SA, Member, Expert Panel, National Curriculum Council, *Ministry of Education*, Government of Pakistan, Islamabad, Pakistan, 2008 — National Advisory Committee
- 2007** • B06: National Curriculum for General Mathematics — Grades IX-X (Humanities Group)
Ministry of Education **KAMAL SA**, Member, Expert Panel, National Curriculum Council, *Ministry of Education*, Government of Pakistan, Islamabad, Pakistan, 2007 — National Advisory Committee
- 2006** • B05: National Curriculum for Mathematics — Grades I-XII
Ministry of Education **KAMAL SA**, Member, Expert Panel, National Curriculum Council, *Ministry of Education*, Government of Pakistan, Islamabad, Pakistan, 2006 — National Advisory Committee
- 2005** • B04: Mathematics — Revised Curriculum
PDF <http://www.ngds-ku.org/hec/math-booklet-final-2005.pdf> (full text)
BS, MS and PhD Schemes of Studies
Higher Education Commission **KAMAL SA**, Convener, National Curriculum Revision Committee in Mathematics, *Higher Education Commission*, Islamabad, Pakistan, 2005 — Editor
- 1989** • B03: Proceedings of the Seminar on Albert Einstein
Karachi University of Karachi **KAMAL SA**, Member, Editorial Board, *Albert Einstein Society and Department of Physics*, University of Karachi, Karachi, Pakistan, Volume 2 (Second Seminar 1987), 1989
- 1988** • B02: Proceedings of the Seminar on Albert Einstein
Karachi University of Karachi **KAMAL SA**, Member, Editorial Board, *Albert Einstein Society and Department of Physics*, University of Karachi, Volume 1 (First Seminar 1986), 1988
- 1973** • B01: Nazr-é-Aqeedat ba Huzoor Sarwar-é-Kaénaat (Sallallahu-Alaihé-Wa-Sallam) (a collection of papers containing quotes in various languages in praise of Our Holy Prophet, Muhammed — Peace and Blessings be upon him)
Comprehensive School **KAMAL SA**, Hyderabad, Pakistan, September 1973 — in Urdu
- Term Paper** ■ The entry [R##] preceding the title is the code assigned to this item:
- 1974** • R01: Ghalib ka Andaaz-é-Bayaan
University of Karachi *The Style of Urdu Poet, Ghalib*
KAMAL SA, *Term Paper for the Urdu Course*, 1974 (unpublished), 243 pages (manuscript deposited in the Ghalib Library, Karachi, Pakistan) — in Urdu
- Articles** ■ Discussing ideas of physical, life and social sciences with end users:
- 2016** • A28: Growth-and-Nutritional-Status Monitoring of Primary-School Children Enrolled in Armed Forces and Civilian Institutions Located in Karachi
PDF <http://www.ngds-ku.org/Articles/A28.pdf> (full text)
University of Karachi **KAMAL SA**, *Aahang* (magazine of the Pakistan Broadcasting Corporation), **69**, 2016, 145-150

- 2015**
PDF
University of Karachi
- **A27: Anthroamthematics: A New Branch of Mathematics**
<http://www.ngds-ku.org/Articles/A27.pdf> (full text)
KAMAL SA, *Rivayat* (magazine of Government College for Men, Nazimabad, Karachi), 2015, pp 10-13
- 2013**
PDF
University of Karachi
- **A26: Suggestions for Increasing Height**
<http://www.ngds-ku.org/BLA/Height.pdf> (full text)
KAMAL SA, *the NGDS Pilot Project e-Publication*, May 23, 2013
 - **A25: Guidelines for Optimal-Weight Management**
<http://www.ngds-ku.org/BLA/Weight.pdf> (full text)
KAMAL SA, *the NGDS Pilot Project e-Publication*, May 23, 2013
 - **A24: Helpful Hints for Overcoming Vitamin-D Deficiency**
<http://www.ngds-ku.org/BLA/VDD.pdf> (full text)
KAMAL SA, *the NGDS Pilot Project e-Publication*, May 23, 2013
- 2012**
PDF
University of Karachi
- **A23: Formulae for Assigning Scoliosis-Risk Weightage**
http://www.ngds-ku.org/BLA/Scoliosis_Risk.pdf (full text)
KAMAL SA, *the NGDS Pilot Project e-Publication*, May 23, 2012
- 2011**
PDF
University of Karachi
- **A22: Growth-and-Obesity Monitoring of Primary-School Children in Schools Run by the Armed Forces of Pakistan**
http://www.ngds-ku.org/ngds_folder/Growth_Monitoring.pdf (full text)
KAMAL SA, *the NGDS Pilot Project e-Publication*, May 23, 2011
 - **A21: Growth-and-Obesity Monitoring of Primary-School Children of Beacon Light Academy**
http://www.ngds-ku.org/BLA/Growth_Monitoring_BLA.pdf (full text)
KAMAL SA, *the NGDS Pilot Project e-Publication*, May 23, 2011
- 2008**
Full Text
PDF
University of Karachi
- **A20: Handling Industrial Projects**
http://www.ngds-ku.org/drak_articles/dra4.htm
<http://www.ngds-ku.org/Articles/A20.pdf> (full text)
KAMAL SA, *Rawish* (magazine of Government Degree College, Malir Cantonment, Karachi, Pakistan), 2008, pp 47-49
- 2007**
Full Text
PDF
University of Karachi
- **A19: Observations and Experiments in Science**
http://www.ngds-ku.org/drak_articles/dra3.htm
<http://www.ngds-ku.org/Articles/A19.pdf> (full text)
KAMAL SA, *Agahi* (magazine of the Shaheed-é-Millat Government Degree College for Women, Azizabad, Karachi, Pakistan), 2007, pp 1-3 — Intellectual Preview
- 1997**
HTML
PDF
University of Karachi
- **A18: What is a Scientific Method After All?**
http://www.ngds-ku.org/drak_articles/dra2.htm (full text)
<http://www.ngds-ku.org/Articles/A18.pdf> (full text)
KAMAL SA, *the News International*, Karachi, Pakistan, December 8, 1997 — Technotalk Page
- 1997**
HTML
PDF
University of Karachi
- **A17: What Can You Learn from the Way Your Child Walks?**
http://www.ngds-ku.org/ngds_folder/art3.htm (full text)
<http://www.ngds-ku.org/Articles/A17.pdf> (full text)
KAMAL SA, *the News International*, Karachi, Pakistan, August 26, 1997 — Technotalk Page
- 1997**
HTML
PDF
University of Karachi
- **A16: Moiré fringe Topography to Detect Scoliosis in Children**
http://www.ngds-ku.org/ngds_folder/art2.htm (full text)
<http://www.ngds-ku.org/Articles/A16.pdf> (full text)
KAMAL SA, *the News International*, Karachi, Pakistan, August 11, 1997 — Technotalk Page

- Articles**
(continued)
- HTML**
PDF
University of Karachi
- **A15: What is Science?**
This articles differentiates between topics, which come under the realm of science and those which do not
http://www.ngds-ku.org/drak_articles/dra1.htm (full text)
<http://www.ngds-ku.org/Articles/A15.pdf> (full text)
KAMAL SA, *the News International*, Karachi, Pakistan, July 21, 1997 — Technotalk Page
 - **A14: How to Guard Against Curvatures of the Spinal Column in Children?**
http://www.ngds-ku.org/ngds_folder/art1.htm
<http://www.ngds-ku.org/Articles/A14.pdf> (full text)
KAMAL SA, *the News International*, Karachi, Pakistan, May 8, 1997 — Technotalk Page
- 1988**
PDF
University of Karachi
- **A13: Moiré Topography**
<http://www.ngds-ku.org/Articles/A13.pdf> (full text)
KAMAL SA, *Physics Dialogue*, Karachi, Pakistan, **1**, March 1988, pp 16-17
- 1980**
PDF
Indiana University
- **A12: Rules for Hijab: Phases of Implementation**
<http://www.ngds-ku.org/Articles/A12.pdf> (full text)
KAMAL SA, *Journal of Rabitat Al-Alam Al-Islami*, Muslim World League, Mecca Al-Mukarramah, Kingdom of Saudi Arabia, **8 (1)**, November 1980, pp 46-49
- 1977**
PDF
University of Karachi
- **A11: The Metric Scale of Time**
<http://www.ngds-ku.org/Articles/A11.pdf> (full text)
KAMAL SA, *Theoretical Review*, Department of Physics, University of Karachi, Karachi, Pakistan, November 1977, pp 3-5
 - **A10: Dana-é-Raaz**
An article on the famous Urdu poet, Iqbal
<http://www.ngds-ku.org/Articles/A10.pdf> (full text)
KAMAL SA, *Echo*, Department of Physics, University of Karachi, Pakistan, **3**, 1977, 13-15 — in Urdu
- PDF**
University of Karachi
- 1976**
PDF
University of Karachi
- **A09: Nazreeyaatee Tabeeyaate kee Ahmeat**
Importance of theoretical physics
<http://www.ngds-ku.org/Articles/A09.pdf> (full text)
KAMAL SA, *Echo*, Department of Physics, University of Karachi, Karachi, Pakistan, **2**, 1976, 15-16 — in Urdu
- 1975**
PDF
University of Karachi
- **A08: The Photon Frame of Reference: Photoparticles**
<http://www.ngds-ku.org/Articles/A08.pdf> (full text)
KAMAL SA, *Vision*, Department of Physics, University of Karachi, Karachi, Pakistan, November 1975, p 4
 - **A07: Raushnee kee Raftaar**
Velocity of light
<http://www.ngds-ku.org/Articles/A07.pdf> (full text)
KAMAL SA, *Science Bachoon kae Leeae* (Science for Children), Scientific Society of Pakistan, Karachi, Pakistan, October 1975, pp 407-408 — in Urdu
- PDF**
University of Karachi
- 1968**
PDF
Comprehensive School
- **A06: Iqbal aur Pakistan**
Iqbal and Pakistan
<http://www.ngds-ku.org/Articles/A06.pdf> (full text)
KAMAL SA, *Hamdard- é-Naunehaal*, Karachi, Pakistan, May 1968, pp 99, 100 — in Urdu

- Articles**
(continued)
PDF
Comprehensive School
- A05: Pakistan Tarakkee kee Shahraah per
Pakistan on the road of success
<http://www.ngds-ku.org/Articles/A05.pdf> (full text)
KAMAL SA, *Hamdard- é-Naunehaal*, Karachi, Pakistan, January 1968, pp 87-88
— in Urdu
- 1967
- A04: Quaid-é-Azam aur Pakistan
Quaid-é-Azam and Pakistan
<http://www.ngds-ku.org/Articles/A04.pdf> (full text)
KAMAL SA, *Hamdard- é-Naunehaal*, Karachi, Pakistan, December 1967, pp 87-89
— in Urdu
- PDF
Comprehensive School
- A03: Pakistan ké Pahlé Wazeer Azam
Pakistan's First Prime Minister
<http://www.ngds-ku.org/Articles/A03.pdf> (full text)
KAMAL SA, *Hamdard- é-Naunehaal*, Karachi, Pakistan, November 1967, pp 90-91
— in Urdu
- PDF
Comprehensive School
- A02: Chuteean Kaesaee Guzareen
How were the vacations spent?
<http://www.ngds-ku.org/Articles/A02.pdf> (full text)
KAMAL SA, *Hamdard- é-Naunehaal*, Karachi, Pakistan, October 1967, p 98
— in Urdu
- PDF
Comprehensive School
- A01: Ikhlaaq Insaan ko Bara Banatee Haeen
Manners exalt a person
<http://www.ngds-ku.org/Articles/A01.pdf> (full text)
KAMAL SA, *Hamdard- é-Naunehaal*, Karachi, Pakistan, September 1967, pp 100-101
— in Urdu
- Essay/Thesis/
Dissertation
Completed**
- PhD dissertation put forward covariant, generalized-coupling and covariant-
Generalized-coupling models of global-electrocortical activity as well as a mathema-
tical definition of brain death (2 foreign-impact-factor-journal papers, 3 other journal
papers and 1 national-conference-proceeding paper); MSc thesis investigated new
frontiers of relativity (1 foreign-impact-factor-journal paper, 1 foreign-journal paper
and 1 journal paper); MA essay studied effects of magnetic field on scale formation
(1 journal paper):
- 1989
HTML
University of Karachi
- Spacetime Representation in the Brain
<http://eprints.hec.gov.pk/1074/1/803.html.htm> (full text)
KAMAL SA, *PhD Dissertation*, 1989 (unpublished), 100 pages, 63 references
- 1986
The Johns Hopkins University
- The Effects of Magnetic Field on Scale Formation
KAMAL SA, *MA Essay*, 1986 (unpublished), 20 pages, 48 references
- 1978
Karachi University of Karachi
- Luxon-Bradyon Transformation
KAMAL SA, *MSc Thesis*, 1978 (unpublished), 253 pages, 221 references
- Dissertations
Supervised**
- Supervised dissertations of the following students for their work on face recognition (first student), modeling of child growth and obesity management (second student) and mathematical modeling of scoliosis management (third student):
- 2016
Update: July 27, 2016
- Effective Decision Making for the Presence of Scoliosis
Sarwar M, *PhD Dissertation* (reports received — BASR meeting awaited)
Degree awarded
 - Generating and Validating Growth-and-Obesity Roadmaps for the Pakistani Children
Ansari SA, *PhD Dissertation* (submitted — examiners appointed)
Degree awarded
- Update: January 17, 2017

This document contains information as of: May 20, 2016 (0000h UTC)

- Dissertations
Supervised
(continued)**
Update: August 8, 2017
- Gait Analysis of 7-10-Year-Old Children of Karachi from Nutritional-Status Perspective
Rajput MK, *PhD Dissertation* (paper published — under compilation)
Degree awarded
 - Mathematical Modeling of Scoliosis Indicators in Growing Children
Raza SK, *PhD Dissertation* (paper accepted — under compilation)
Degree awarded
 - Growth-and-Obesity Vector-Roadmaps of the Pakistani Children
Naz AA, *PhD Dissertation* (paper submitted — under compilation)
Dissertations received at the end of examiners
- Update:* August 8, 2017
- Update:* August 27, 2017
- 2015**
- A Security System Employing Edge-Based Rasterstereography
Wasim M, *PhD Dissertation* (unpublished)
- Dissertations
(in progress)**
- Two-Body Problem in the Parabolic-Astrodynamical-Coördinate Mesh
Javed M, *PhD Dissertation*
 - Validation of Concept of Optimal Mass in Children and Adults
Jamil N, *PhD Dissertation*
- Theses
Supervised**
- Supervised theses of the following students (degrees awarded) for their work on modeling of heart, brain, child growth and validation of 3-D-bioimaging techniques — moiré fringe topography and rasterstereography:
- 2014**
- A Method to Generate Growth-and-Obesity Profiles of Children of Still-Growing Parents
Jamil SS, *MPhil Thesis*, 2014 (unpublished)
- 2009**
- Adult-Height and Adult-Weight Formulae for the Pakistani Population
Jamil N, *MPhil Thesis*, 2009 (unpublished)
- 2008**
- Validity of Various Techniques of Moiré Fringe Topography
Techniques applied to detection of trunk deformities, mainly, scoliosis
Ansari SA, *MPhil Thesis*, 2008 (unpublished)
 - Validity of Various Techniques of Rasterstereography
Techniques applied to detection of trunk deformities, mainly, scoliosis
Khan MA, *MPhil Thesis*, 2008 (unpublished)
- 2006**
- Physics and Geometry of Heart-Sound Quadrilateral
Wasim M, *MPhil Thesis*, 2006 (unpublished)
- 1990**
- Magnetobiology for Covariant and Generalized-Coupling Models
Naeem M, *MSc Thesis*, 1990 (unpublished)
 - Effects of Gravitational Field on the Electrocardiac Activity of Brain
Ahmed SN, *MSc Thesis*, 1990 (unpublished)
- Thesis
(in progress)**
- Two-Body Problem in Hyperbolic-Astrodynamical-Coördinate Mesh
Latif S, *MPhil Thesis*
- Synopsis
(submitted)**
Update: October 27, 2016
- Mathematical Justification of Cutoff Height for Induction in the Armed Forces of Pakistan
Wakil MN, *MPhil leading to PhD*
Approved

**Conferences
Chaired/Co-Chaired**

- The Second Karachi University Educational Conference
(Educational Challenges of the Pakistani Children in the Twenty-First Century)
Faculty of Education, University of Karachi, Karachi, Pakistan, September 2, 2015
Conference Co-Chair
- The Second Conference on Anthromathematics and Sport Mathematics in
the Memory of (Late) Hussain Ahmed Bilgirami
Department of Mathematics, University of Karachi, Karachi, Pakistan and
Government College, Hyderabad, Pakistan, September 4, 2014
Conference Chair
- The Second Conference on Mathematical Sciences
Department of Mathematics, University of Karachi, Karachi, Pakistan,
March 20, 2014
Conference Chair
- The First Conference on Anthromathematics in the Memory of
(Late) Syed Firdous
Department of Mathematics, University of Karachi, Karachi, Pakistan and
Government College, Hyderabad, Pakistan, September 4 and 5, 2013
Conference Chair

End of document

Web address of this document: <http://www.ngds-ku.org/pub/Univpub.pdf>