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PUBLICATIONS (LAST 5 YEARS)

My Philosophy of Life

While there is a will there is a way

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Key to Institutions

Higher Education Commission
Karachi University
Ministry of Education

- 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:
 - Higher Education Commission, Regional Office, Gulberg, Lahore, Pakistan
 - University of Karachi, University Road, Karachi 75270, Pakistan
 - Ministry of Education, Curriculum Wing, Sector H-9, Islamabad, Pakistan

Journal Papers

2011

Abstract

PDF

Karachi University

- Journal papers during the last 5 years:
 - Growth-and-Obesity Profiles of Children of Karachi using Box-Interpolation Method
<http://www.ngds-ku.org/pub/jourabstA.htm#J29>:
<http://www.ngds-ku.org/Papers/J29.pdf>
KAMAL SA, Jamil N, Khan SA, *International Journal of Biology and Biotechnology* **8(1)**, 2011, 87-96

2009

Abstract

PDF

Karachi University

- Concept Building in the Undergraduate Mathematics and Physics Curricula
<http://www.ngds-ku.org/pub/jourabst.htm#J28>:
<http://www.ngds-ku.org/Papers/J28.pdf>
KAMAL SA, Siddiqui KA, Naseeruddin, *Karachi University Journal of Science* **37(1&2)**, 2009, 1-6

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- Conference Papers**
- 2011**
- Abstract*
PDF
Karachi University
- Conference papers during the last 5 years
 - **3-D-Optical imaging in Diabetic-Foot Care of Children**
[http://www.ngds-ku.org/pub/confabstA.htm#C87:](http://www.ngds-ku.org/pub/confabstA.htm#C87)
<http://www.ngds-ku.org/Presentations/JPMC.pdf>
KAMAL SA, *Symposium on Diabetic Foot Care*, Department of Orthopedic Surgery, Jinnah Postgraduate Medical Center, Najmuddin Auditorium, JPMC, Karachi, 2011, p 1
 - **Curbing Corruption in Pre-University Education**
[http://www.ngds-ku.org/pub/confabstA.htm#C86:](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, 2011, p 1
 - **Anthromathematics: A New Branch of Mathematics**
[http://www.ngds-ku.org/pub/confabstA.htm#C85:](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, 2011, abstract # 1, pp 13, 14 (keynote lecture)
 - **Intelligent Ledger Balance using Theory of Matrices**
[http://www.ngds-ku.org/pub/confabstA.htm#C84:](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, 2011, abstract # 2, pp 14, 15 (the Islamuddin memorial lecture)—nominated by Vice Chancellor, University of Karachi
 - **The Fourth Law of Thermodynamics**
[http://www.ngds-ku.org/pub/confabstA.htm#C83:](http://www.ngds-ku.org/pub/confabstA.htm#C83)
<http://www.ngds-ku.org/Papers/C83.pdf>
KAMAL SA, *the Pakistan Institute of Physics Conference (PIPC 2011)*, University of Engineering and Technology, Lahore, Pakistan, 2011, paper # PIPC-11-25, p 4 (the Salim Ahmed memorial lecture)—nominated by Vice Chancellor, University of Karachi
- Abstract*
PDF
Karachi University
- 2010**
- Abstract*
PDF
Karachi University
- **Generalization of Principle of Equivalence**
[http://www.ngds-ku.org/pub/confabstA.htm#C82:](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, 2010, abstract # 2, p 11 (Prof. Dr. Q. K. Ghori memorial lecture)—nominated by Vice Chancellor, University of Karachi
 - **An Airport-Passenger-Screening System based on Emitted IR and Thermal Radiation**
[http://www.ngds-ku.org/pub/confabstA.htm#C81:](http://www.ngds-ku.org/pub/confabstA.htm#C81)
<http://www.ngds-ku.org/Presentations/Security.pdf>
KAMAL SA, *the Fifth Symposium on Computational Complexities, Innovations and Solutions (CCIS 2010)*, COMSATS Institute of Information Technology, Abbotabad, KP, Pakistan, 2010, abstract # 24, p 21
 - **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, 2010, abstract # 25, p 21
- Abstract*
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- 2010**
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Abstract
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Karachi University
- **Mathematics in the Life Sciences**
This lecture took height and weight measurements to 2-decimal place accuracies
<http://www.ngds-ku.org/pub/confabstA.htm#C79>:
<http://www.ngds-ku.org/Presentations/Firdous.pdf>
KAMAL SA, *the First National Conference on Mathematical Sciences*, Golden Jubilee Celebration, Department of Mathematics, University of Karachi, 2010, abstract # 10, p 19 (the Syed Firdous memorial lecture)
 - **A Minkowski-Type Metric for Curved Spacetime**
<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, 2010, abstract # 15, p 12 (Prof. Dr. Khursheed Alam Khan memorial lecture) — nominated by Vice Chancellor, KU
- Abstract
PDF
Karachi University
- 2009**
Abstract
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Karachi University
- **Mathematics of Experimentation**
<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, 2009, abstract # 1, pp 9-10 (Prof. Dr. Muhammed Rafi and Prof. Dr. Muhammed Razi Hussain memorial lecture)
 - **Biomedical Applications of 3-D Optical Imaging and Image Processing**
<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 (INSC 2009)*, Activity III: Biophotonics, Photodynamics and Microscopy, National Center for Physics, Islamabad, Pakistan, 2009
 - **Avoiding Infinities from the Lorentz and the Poincaré Transformations**
<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, 2009, p 16 (invited paper) — nominated by Vice Chancellor, University of Karachi
 - **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/Presentations/Gauss.pdf>
KAMAL SA, *Workshop on Physics*, Government College, Hyderabad, Sindh, Pakistan, 2009 (invited paper)
 - **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, 2009, p 1 (keynote lecture)
- Abstract
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Karachi University
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- 2008**
Abstract
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Karachi University
- **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
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, 2008, pp 294-300 (invited paper)
 - **Role of Mathematics in the 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*, University of Karachi, 2008, abstract # 72; *Karachi University Journal of Science* **36(1&2)**, 2008, 35
 - **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
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, 2008, pp 32-39 (invited paper)
 - **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, 2008
 - **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
KAMAL SA, *Proceedings of International Symposium on Biometrics and Security Technologies (IEEE ISBAST 2008)*, Bahria University, Islamabad, Pakistan, 2008, pp 1-7 (invited paper)
- 2006**
Abstract
PDF
Karachi University
- **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
KAMAL SA, *Proceedings of the Tenth National Aeronautical Conference*, Edited by Sheikh SR, Khan AM, Pakistan Air Force Academy, Risalpur, KP, Pakistan, 2006, pp 255-263
 - **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
KAMAL SA, Mirza A, *Proceedings of the Fourth International Bhurban Conference on Applied Sciences and Technologies (IBCAST 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
- Manual**
2006
PDF
Karachi University
- Manual produced during the last 5 years:
Manual for Obtaining Anthropometric Measurements
http://www.ngds-ku.org/ngds_folder/M02.pdf
 - **KAMAL SA**, *Manual for Testing*, Karachi, Pakistan, November 2006

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- Books**
- 2008**
PDF
- Higher Education Commission
- Books edited during the last 5 years:
 - **Mathematics— Revised Curriculum**
<http://www.ngds-ku.org/hec/math-booklet-final-2008.pdf>
BS Scheme of Studies
KAMAL SA, Convener, National Curriculum Revision Committee in Mathematics, Higher Education Commission, Islamabad, Pakistan, 2008
 - **National Curriculum for General Mathematics— Grades XI-XII**
KAMAL SA, Member, Expert Panel, National Curriculum Council, Ministry of Education, Government of Pakistan, Islamabad, Pakistan, 2008 [National Advisory Committee]
 - **National Curriculum for General Mathematics— Grades IX-X**
KAMAL SA, Member, Expert Panel, National Curriculum Council, Ministry of Education, Government of Pakistan, Islamabad, Pakistan, 2007 [National Advisory Committee]
 - **National Curriculum for Mathematics— Grades I-XII**
KAMAL SA, Member, Expert Panel, National Curriculum Council, Ministry of Education, Government of Pakistan, Islamabad, Pakistan, 2006 [National Advisory Committee]
- Ministry of Education
- 2007**
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- Articles**
- 2008**
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- Karachi University
- Articles for pre-university students during the last 5 years:
 - **Handling Industrial Projects**
http://www.ngds-ku.org/drak_articles/drarticle4.pdf
KAMAL SA, *Rawish* (Magazine of the Government Degree College, Malir Cantt., Karachi, 2008, pp 47-49)
 - **Observations and Experiments in Science**
http://www.ngds-ku.org/drak_articles/drarticle3.pdf
KAMAL SA, *Agahi* (Magazine of the Shaheed-é-Millat Government Degree College for Women, Azizabad, Karachi), 2007, pp 1-3 (Intellectual Preview)

Web address of this document: <http://www.ngds-ku.org/pub/Pub05.pdf>

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