



Dr. Nasro Min Allah:

Professor

Personal Data

Nationality | Pakistani

Date of Birth | September 06, 1975

Department | Computer Science

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Language Proficiency

Language	Read	Write	Speak
Arabic	Yes	-	-
English	Yes	Yes	Yes
Pushto	Yes	Yes	Yes
Urdu	Yes	Yes	Yes

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
June 2014	PostDoc	MIT	USA
August 2018	PhD	GUCAS	GUCAS, PRC
August 2002	MSIT	Hamdard Univ	Pakistan
March 1998	MSc	QAU	Pakistan

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Engineering Computer Software and Theory
Master	Beam Steering through Genetic Algorithms
Fellowship	



Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work		Date
Professor	UoD	KSA	Sep 2020-
Associate Professor	UoD	KSA	Aug 29, 2014- Sep 14, 2020
Visiting Associate Professor	MIT	USA	Sep 2012- June 2014
Associate Professor	CIIT	Pakistan	Aug 2002- Aug 2012

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Head of the department	Dept of CS, CIIT-Pakistan	2009-2012

Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Saleh Alrashed, Nasro Min-Allah, Arnav Saxena, Ijaz Ali, Rashid Mehmood	Impact of lockdowns on the spread of COVID-19 in Saudi Arabia	Informatics in Medicine Unlocked, 20, 100420
2	Farmanullah Jan, Mohammed Imran Basheer Ahmed, Nasro Min-Allah	Databases for Iris Biometric Systems: A Survey	SN Computer Science 1 (6), 1-36, 2020.
3	Farmanullah Jan, Nasro Min-Allah, Shahrukh	A robust iris localization scheme for the iris recognition	Multimedia Tools and Applications, 1-27, 2020



	Agha, Imran Usman, Irfan ullah Khan,		
4	Farmanullah Jan, Nasro Min- Allah	An effective iris segmentation scheme for noisy images	Biocybernetics and Biomedical Engineering, 40(3), pp. 1064-1080, 2020
5	Nasro Min- Allah, Saleh Alrashed	Smart Campus-A Sketch	Sustainable Cities and Society, 59, https://doi.org/10.1016/j.scs.2020.102231 , 2020.
6	Nasro Min- Allah, Muhammad Bilal Qureshi, Farmanullah Jan, Saleh Alrashed & Javid Taheri	Deployment of real-time systems in the cloud environment	The Journal of Supercomputing (2020), https://doi.org/10.1007/s11227-020-03334-7 , 2020
7	Chong Wang, Nasro Min- Allah, Bei Guan, Yu-Qi Lin, Jing- Zheng Wu, Yong-Ji Wang	An Efficient Approach for Mitigating Covert Storage Channel Attacks in Virtual Machines by the Anti- Detection Criterion	Journal of Computer Science and Technology, 34(6): 1351–1365, 2019.
8	Nasro Min- Allah, Muhammad Bilal Qureshi, Saleh Alrashed, Omer F.Rana	Cost Efficient Resource Allocation for Real-Time Tasks in Embedded Systems	Sustainable Cities and Society, 48, /doi.org/10.1016/j.scs.2019.101523 , July 2019.
9	Nasro Min- Allah	Effect of ordered set on feasibility analysis of static- priority system	Journal of Super Computing, 75(1), pp. 475–487, Jan 2019.
10	Aamir Shafi, Saqib Saeed, Yasser A. Bamarouf, Sardar Zafar Iqbal, Nasro Min-Allah, Mohammed A. Alqahtani	Student Outcomes Assessment Methodology for ABET Accreditation: A Case Study of Computer Science and Computer Information Systems Programs	IEEE Access, Jan 2019.



11	Awais Ahmad, Anand Paul, Muard Khan, Sohail Jabbar, Muhammad Mazhar Ullah Rathore, Naveen Chilamkurti, Nasro Min-Allah	Energy Efficient Hierarchical Resource Management for Mobile Cloud Computing.	IEEE Transactions on Sustainable Computing (T-SUSC), 2(1): 100-112, (2018).
12	Li Chen, Yinrun Lyu, Chong Wang, Jingzheng Wu, Changyou Zhang, Nasro Min-Allah , Jamal Alhiyafi, Yongji Wang,	Solving linear optimization over arithmetic constraint formula.	J. Global Optimization 69(1): 69-102 (2017).
13	MB Qureshi, MA Alqahtani, Nasro Min-Allah ,	Grid Resource Allocation for Real-Time Data-Intensive Tasks,	IEEE Access 5, pp. 22724-22734, 2017
14	Y Lyu, L Chen, C Zhang, D Qu, N Min-Allah , Y Wang	An interleaved depth-first search method for the linear optimization problem with disjunctive constraints,	Journal of Global Optimization, vol. 70, no.4, pp. 737-756., 2018
15	Awais Ahmad ,Muhammad Babar, Sadia Din, Shehzad Khalid, Muhammad Mazhar Ullah, Anand Paul, Alavalapati Goutham Reddy, Nasro Min-Allah	Socio-cyber network, The potential of cyber-physical system to define human behaviors using big data analytics, Future Generation Computer Systems	Future Generation Computer Systems, doi.org/10.1016/j.future.2017.12.027, 2018
16	Saif Ur Rehman Malik, Samee U. Khan, Sam J. Ewen, Nikos Tziritas, Joanna Kolodziej, Albert Y. Zomaya, Sajjad Ahmad Madani, Nasro Min-Allah , Lizhe Wang, Cheng-Zhong Xu, Qutaibah M. Malluhi, Johnatan E. Pecero, Pavan Balaji, Abhinav Vishnu, Rajiv Ranjan, Sherali Zeadally, Hongxiang Li	Performance analysis of data intensive cloud systems based on data management and replication: a survey	Distributed and Parallel Databases 34(2): 179-215 (2016).



17	Muhammad Bilal Qureshi, Saleh Alrashed, Nasro Min-Allah , Joanna Kolodziej, Piotr Arabas:	Maintaining The Feasibility Of Hard Real-Time Systems With A Reduced Number Of Priority Levels.	Applied Mathematics and Computer Science 25(4): 709-722 (2015).
18	M. B. Qureshi, M. M. Dehnavi, N. Min-Allah , M. S. Qureshi, H. Hussain, I. Rentifis, N. Tziritas, T. Loukopoulos, S. U. Khan, C.-Z. Xu, A. Y. Zomaya	Survey on Grid Resource Allocation Mechanisms	Journal of Grid Computing, 12(2): 399-441 (2014).
19	Nasro Min-Allah , Samee Ullah Khan, Xiuli Wang, Albert Y. Zomay, Lowest Priority First Based Feasibility Analysis of Real-time Systems, Journal of Parallel and Distributed Computing, 73(8): 1066-1075 (2013).	Nasro Min-Allah , Samee Ullah Khan, Xiuli Wang, Albert Y. Zomay, Lowest Priority First Based Feasibility Analysis of Real-time Systems, Journal of Parallel and Distributed Computing, 73(8): 1066-1075 (2013).	Nasro Min-Allah , Samee Ullah Khan, Xiuli Wang, Albert Y. Zomay, Lowest Priority First Based Feasibility Analysis of Real-time Systems, Journal of Parallel and Distributed Computing, 73(8): 1066-1075 (2013).
20	Osama Khalid, Samee Khan, Nasro-Min-Allah , Sajjad Madani, Khizar Hayat, Majid I. Khan, Joanna Kolodziej, Lizhe Wang, Serali Zeadally	Comparative Study of Trust and Reputation Systems for Wireless Sensor Networks	Journal of Security and Communication Networks, 6(6): 669-688 (2013)
21	J. Kolodziej, S.U. Khan, L. Wang, A Byrski, N. Min-Allah and S.A. Madani	Hierarchical Genetic-based Grid Scheduling with Energy Optimization	Cluster Computing, 16(3): 591-609 (2013).
22	G. L. Valentini, W. Lassonde, S. U. Khan, N. Min-Allah , S. A. Madani, J. Li, L. Zhang, L. Wang, N. Ghani, J. Kolodziej, H. Li, A. Y. Zomaya, and P. Bouvry	An Overview of Energy Efficiency Techniques in Cluster Computing Systems	Cluster Computing, 16(1): 3-15 (2013).
23	Oscar Diaz, Feng Xu, Nasro Min-	Network Survivability for Multiple Probabilistic Failures,	IEEE Communications Letters 16(8): 1320-1323 (2012).



	Allah, Mahmoud Khodeir, Min Peng, Samee Khan, Nasir Ghani,		
24	Kashif Bilal, S.U. Khan, N Min-Allah , S.A. Madani	Quantitative Comparisons of the State of the Art Data Center Architectures	Concurrency and Computation: Practice and Experience, 25(12): 1771-1783 (2013).
25	Jingzheng Wu, Liping Ding, Yanjun Wu, Nasro Min-Allah, Samee U. Khan, Yongji Wang	C2 Detector: A Covert Channel Detection Framework in Cloud Computing,	Security and Communication Networks, 2013.
26	Kaile Liang, Hamed Alazemi, Nasro Min-Allah , Min Peng, Nasir Ghani,	An Optimization Approach for Multi-Domain Optical Network Provisioning,	IEEE/OSA Journal of Optical Communications and Networking, 5(12), 1413 – 1424, 2013
27	H. Hussain, S. U. R. Malik, A. Hameed, S. U. Khan, G. Bickler, N. Min-Allah , M. B. Qureshi, L. Zhang, W. Yongji, N. Ghani, J. Kolodziej, A. Y. Zomaya, C.-Z. Xu, P. Balaji, A. Vishnu, F. Pinel, J. E. Pecero, D. Kliazovich, P. Bouvry, H. Li, L. Wang, D. Chen, and A. Rayes	A Survey on Resource Allocation in High Performance Distributed Computing Systems	Parallel Computing, 39(11): 709–736 (2013)
28	Nasro Min-Allah , Samee Ullah Khan, Nasir Ghani, Juan Li, Lizhe Wang, and Pascal Bouvry	A Comparative Study of Rate Monotonic Schedulability Tests	Journals of Supercomputing, 59(3), pp. 1120-1138, 2012.
29	Samee Ullah Khan, Nasro Min-Allah	A Goal Programming Based Energy Efficient Resource Allocation in Data Centers,	Journals of Supercomputing, Accepted, DOI 10.1007/s11227-011-0611-7, 2011.
30	Nasro Min-Allah , Hameed Hussain, Samee Ullah Khan, Albert Y. Zomaya	Power Efficient Rate Monotonic Scheduling for Multi-core Systems	Journal of Parallel and Distributed Computing, 72(1), pp. 48-57, 2011.
31	Nasro Min-Allah , Xing Jiansheng, Wang Yongji,	Utilization Bound for Periodic Task Set with Composite-Deadline,	Journal of Computers and Electrical Engineering, (36) 6, pp. 1101-1109, 2010.



32	Nasro Min-Allah, Samee Ullah Khan, Wang Youngji	Optimal Task Execution Times for Periodic Tasks Using Nonlinear Constrained Optimization	Journal of Supercomputing, pp. 1-19, 2010.
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Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date
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Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	Njoud Almansour, Nasro Min-Allah	A Survey of Scheduling Algorithms in Cloud Computing	2019 International Conference on Computer and Information Sciences (ICCIS) April 3–4, 2019 Jouf University, Aljouf, Kingdom of Saudi Arabia, DOI: 10.1109/ICCISci.2019.8716448. (link:)
2	Najla Al-Taleb, Nasro Min-Allah,	Analysis of Internet of Things Operating Systems	2019 Third IEEE International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2019), February 22-23, 2019.
3	Nasro Min-Allah, Mehwash Farooqui, Abrar Alwashmi, Sarah Almahasheer, Malak Alsufayyan, Najla Al-tulaihan	Smart Monitoring of Water Tanks in KSA	2018 International Conference on Computational Science and Computational Intelligence CSCI, Las Vegas, NV, 1044-1047, 2018.
4	Joanna Kolodziej ,Magdalena Szmajduch, Tahir Maqsood, Sajjad A. Madani, Nasro Min-Allah and Samee U. Khan	Energy-aware grid scheduling of independent tasks and highly distributed data,	11th IEEE International Conference on Frontiers of Information Technology (FIT), Islamabad, Pakistan, December 2013.
5	Feng Xu, N Ghani, S.U Khan, N. Min-Allah	Diverse Routing in Multi-Domain Optical Networks With Correlated and Probabilistic Multi-Failures	In international workshop on New Trends in Optical Network Survivability, 2012.



6	Joanna Kolodziej, Khizar Hayat, Sajjad Madani, Samee Khan, Limin Zhang, Lizhe Wang, Dan Chen, Kashif Bilal, Nasro Min-Allah	A Comparative Study of Data Center Network Architectures,	26th European Conference on Modeling and Simulation, ECMS 2012, Germany.
7	Jingzheng Wu, Liping Ding, Yuqi Lin, Nasro Min-Allah, Yongji Wang	XEN: A New Method to Mitigate Timing Channel in Cloud Computing.	5th IEEE International Conference on Cloud Computing, IEEE CLOUD 2012, 678 – 685, 2012.
8	Vosoughi, K. Bilal, S. U. Khan, N. Min-Allah, J. Li, N. Ghani, P. Bouvry, and S. Madani	A Multidimensional Robust Greedy Algorithm for Resource Path Finding in Large-Scale Distributed Networks	7th ACM/IEEE International Conference on Frontiers of Information Technology (FIT), Islamabad, Pakistan, December 2011
9	S. Liu, K. Bilal, S. U. Khan, H. Li, N. Min-Allah, J. Li, N. Ghani, P. Bouvry, and S. Madani	Heuristics-based Nominal Channels Allocation in Cellular Networks	7th ACM/IEEE International Conference on Frontiers of Information Technology (FIT), Islamabad, Pakistan, December 2010.
10	J. Kolodziej, S. U. Khan, L. Wang, N. Min-Allah, S. A. Madani, N. Ghani, and H. Li	An Application of Markov Jump Process Model for Activity-Based Indoor Mobility Prediction in Wireless Networks	8th IEEE International Conference on Frontiers of Information Technology (FIT), Islamabad, Pakistan, December 2011
11	S. Liu, K. Bilal, S. U. Khan, H. Li, N. Min-Allah, J. Li, N. Ghani, P. Bouvry, and S. Madani,	Heuristics-based Nominal Channels Allocation in Cellular Networks	7th ACM/IEEE International Conference on Frontiers of Information Technology (FIT), Islamabad, Pakistan, December 2010.

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	Nasro Min-Allah, Saleh Alrashed, Ijaz Ali, Rashid Mehmood	Quantifying the Impact of Lock-down on the Spread of COVID-19	Commencement Date: Feb 2020, Funding: DSR8000 by DSR-IAU
2	Nasro Min-Allah, Farmanullah Jan, Saleh Alrashed	Deployment of Real-Time Systems in the Cloud	Commencement Date September 2019, Funding: SAR:76,800 DSR-IAU



3	Farmanullah Jan, Nasro Min-Allah , Dilek Dustegor	IoT Based Smart Water Tanks	Commencement Date September 2019, Funding: DSR: 81600 by DSR-IAU
4	Nasro Min Allah/ Samee Ullah Khan	Development of Cloud Computing Thematic Research and Educational Program-CIIT	2010

Current Researches

#	Research Title	Name of Investigator(s)
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Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	2021: 4th International Conference on Computer Science and Software Engineering (CSSE 2021),	Singapore during Oct. 22-24, 2021	Technical Program Committee
2	2021: CLOUD COMPUTING, The Twelfth International Conference on Cloud Computing, GRIDs, and Virtualization,	Portugal	Technical Program Committee
3	2020: 3rd International Conference on Algorithms, Computing and Artificial Intelligence,	Sanya, China (ACAI 2020)	Technical Program Committee
4	9th IEEE/ACM International Conference on Utility and Cloud Computing	2016, China	Technical Program Committee



5	The 2015 IEEE International Conference on Internet of Things	Seoul, S. Korea: 2015	Technical Program Committee
6	8th IEEE/ACM International Conference on Utility and Cloud Computing	Limassol, Cyprus: 2015	Technical Program Committee
7	IEEE/ACM GreenCom	Beijing, China: 2013	Technical Program Committee
8	HiPMoS	Ålesund, Norway: 2013	Technical Program Committee
9	IEEE iThings	Beijing, China: 2013	Technical Program Committee
10	IEEE CloudCom	Bristol, United Kingdom: 2013	Technical Program Committee
11	CloudCom	2012	Technical Program Committee
12	IEEE ScalCom	ChangZhou, China: 2012	Technical Program Committee
13	IEEE/ACM International Conference on Green Computing and Communication	Chengdu, , China: 2011	Technical Program Committee
14	Workshop Chair, Int, conf on Frontiers on information Technology	Islamabad, Pakistan: 2011	Workshop Chair

Membership of Scientific and Professional Societies and Organizations

- n/a
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Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Mobile Application Programming	CS 526	Lectures+labs
2	Object Oriented Programming-2	CS 321	Lectures+labs
3	Object Oriented Programming-1	CS 311	Lectures+labs
4	Fundamentals of Programming	CS 221	Lectures+labs



Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

1	<p>Mobile Application Programming -CS 526: The course examines the principles of application design and development for hand held devices. The mobile platform constraints, insights and applicability of relevant programming languages are discussed from platform perspectives. Students work in small collaborative design teams to propose, build, and document a semester-long project focused on mobile applications for cell phones. Students learn application development on smart devices, mainly Android platform.</p> <p>The course also explains methods for organizing projects using emerging technologies in such a way that they are highly scalable and maintainable. Throughout the semester, students develop simple applications from scratch to solidify knowledge of the materials and upon the nature of mini projects, relevant tools are identified. Students deploy and test their apps on both emulators and on real devices.</p>
2	<p>Object Oriented Programming- CS 321: The main purpose of this course is to develop the understanding of advanced OOP topics using a high-level object-oriented programming language. The focus of the course is on the design and implementation of event-driven applications. Main topics include: exception handling, multithreading, applets, event-driven programming, database connectivity, application programming interfaces (APIs) and the object oriented graphical user interfaces using SWING.</p>
3	<p>Object Oriented Programming-1: The purpose of this course is to provide students with fundamental knowledge of object oriented programming (OOP). It emphasizes good software engineering principles and developing programming skills. Specific topics covered include: fundamental concepts of object oriented (classes, methods, instantiation, communication by message, encapsulation, inheritance, overriding, dynamic dispatch, polymorphism, etc.) and some interesting packages (I/O, strings, etc.). As an OOP programmer, a student will be able to translate solution problem into object oriented form. He/She should acquire some understanding of object oriented concepts and tools such as the Unified Modeling Language (UML). This will give the student a firm foundation on which he/she can build high-quality software systems. In practice the programming language used is JAVA, as an introduction to JAVA language. Students should acquire some understanding of abstraction mechanisms, enumeration, JAVA Virtual Machines (JVM) and the byte code notion.</p>
4	<p>Fundamentals of Programming: This knowledge area consists of those skills and concepts that are essential to programming practice independent of the underlying paradigm and programming language. Specific topics covered include: an overview of algorithms and problem-solving (problem solving strategies, role of algorithms in the problem-solving process, etc), fundamental programming constructs (variables, types, expressions, simple I/O, conditional and</p>



iterative control structures, functions, recursion, pointers, etc.). The study of programming language features and programming paradigms. Control, run-time environments, and semantics. Examples of procedural, functional, logical, and object oriented programming. In the lab practical for this course, the programming language used is the C++ compiler embedded in the Microsoft Visual Studio Express 2013. The syntax aspect of language and some pragmatic aspects such as compilers and language translation phases must be studied in laboratory.

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Advanced Topics in Operating Systems	MSCS 611	Lectures
2	Parallel and Distributed Processing	MSCS 615	Lectures

Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

1	<p>Advanced Topics in Operating Systems: This course covers general issues of design and implementation of advanced modern operating systems with special emphasis on real-time operating systems and distributed computing. In this course students study advanced operating system topics and are exposed to recent developments in operating systems research. This course involves readings and lectures on classic and new journal and conference papers. Main topics include, introduction to scheduling theory, fixed priority scheduling vs dynamic scheduling, feasibility conditions, file systems, hard disk scheduling, energy efficient systems and virtual machines.</p>
2	<p>Parallel and Distributed Processing: This course covers general issues of parallel and distributed processing from various points of view. Hardware and software approaches are discussed for enhancing system performance. Outline works, span, and Amdahl's laws are explained. Various solution are sketched, implemented, and evaluated. Major topics investigated in this course include: shared/distributed memory, impact of cache of performance, fine and coarse granularity based problems, socket programming, remote method invocation, Pthreads, OpenMP, and performance evaluation of parallel computing.</p>



Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	to
1	Mobile Application Programming, CS 526	yes	-	Yes	-	2015	2017
2	Object Oriented Programming-2, CS 321	yes	-	Yes	-	2015	2021
3	Object Oriented Programming-1, CS 311	yes	-	Yes	-	2015	2021
4	Advanced Topics in Operating Systems:, CS 611	yes	-	-	yes	2017	2018
5	Parallel and Distributed Processing	yes	-	-	yes	2020	2021

Guest/Invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date
	n/a			

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
1	7	20	2015	2018

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	PhD	Resource Allocation for Real-Time Tasks in High Performance Distributed Computing Systems	CIIT, Pak	2014



2	PhD	Ikram Ullah Lali, Formal Design and Verification in parallel File Systems	CIIT, Pak	2012
3	PhD	Hameed Hussain, Power Efficient Resource Allocation in HPC Systems	CIIT, Pak	2012
4	MSCS	An efficient load partitioning algorithm for multi-core systems	CIIT, Pak	2011
5	MSCS	A comparative study of rate-monotonic schedulability tests	CIIT, Pak	2009
6	MSCS	Finding optimal system speed under fixed priority scheduling in real-time systems	CIIT, Pak	2010
7	MSCS	Grid high availability & service security issues with solutions,	CIIT, Pak	2010
8	MSCS	Power aware non-preemptive real-time systems,	CIIT, Pak	2010
9	MSCS	Response based energy efficient feasibility test for multiprocessor systems	CIIT, Pak	2011
10	MSCS	Unit-quantum scheduling for non-preemptive real-	CIIT, Pak	2011



		time tasks on multi-core platforms,		
11	MSCS	Controlled-preemption fixed priority scheduling for real-time systems	CIIT, Pak	2011

Ongoing Research Supervision

#	Degree Type	Title	Institution	Date
	n/a			

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization
	n/a			

Committee Membership

#	From	To	Position	Organization
	n/a			

Scientific Consultations

#	From	To	Institute	Full-time or Part-time
	n/a			

Volunteer Work

#	From	To	Type of Volunteer	Organization
1	2016	2016	Workshop on Mobile Apps	CCSIT-IAU



Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Real Time Systems
2	Mobile Application Development
3	Smart Campus
4	Parallel Computing

Last Update

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