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RESUME

KING SAUD UNIVERSITY
COLLEGE OF COMPUTER & INFORMATION SCIENCES
DEPARTMENT OF COMPUTER ENGINEERING

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Resourceful and innovative professional with a 30+ year academic career producing powerful learning opportunities for graduate and undergraduate university students, Saudi national educational facilities and corporate training. Recognized for teaching excellence and expertise in computer education programs development and in providing solutions to individuals and corporations which enhance productivity, strengthen responsiveness, improve quality, and drive sustained performance. Pioneering computer education ,computer awareness , and IT national planning. Strong follow-through, administrative and academic management capabilities.

 Specialties: A senior level consultant with many years' experience in the networking and communication   fields.   Expert in building and supervision of networking and communication products , strategies and   policies , and development of ICT legal proposals and contracts.   Background includes   Computer Networks design, Communications systems & products development, Health informatics research and ICT organization management.   Available for interim opportunities or specific large-scale networking and ICT projects requiring senior level consultancy and support.

CORE COMPETENCEIES:

· IT Curriculum Development	· Extra Curricular Initiatives
· Research & Reporting ICT Systems & Products	· Academic Leadership
· Computing & IT Awareness	· Technical Negotiation & Consultancy
· Legal ICT Advising & Arbitration	· Scientific Authoring & Lecturing
· ICT Centers Management	· Scientific Society Involvement
. Islamic Jurisdiction	. Multi Culture & Ethnic Awareness

EDUCATION DEVELOPMENT

- B.Sc. degree in electrical engineering with honor degree 1st class from **King Saud University** (KSU), Riyadh Saudi Arabia in June 1975.
- M.Sc. degrees, department of electrical engineering, **Stanford University**, Calif., U.S.A., 1978.
- Ph.D. degrees, department of electrical engineering, **Stanford University**,

Calif., U.S.A. 1983.
- Ph.D. thesis: Development of a Distributed Routing algorithms for microprocessor -based digital telephony switching.

ACADEMIC CAREER PATH & JOBS
- Teaching assistant , electrical engineering department ,King Saud University June 1976
- Grader/ Research Assistant, Electrical Engineering Department ,Stanford University 1978-1983
- Assistant professor, electrical engineering department ,King Saud University June 1983 ,
- A founding group of the college of computer and information sciences (CCIS) at KSU and a member in the college council, June 1984
- Chairman of computer engineering department at CCIS September 1985 - September 1988
- Deputy dean of CCIS. 1988 to December 1990
- Director of Information Center at CCIS. 1994 to 1996
- Director of research center at CCIS 1998 to 2003
- Dean of CCIS , King Saud University 2003-2009
- Member King Saud university Council 2003-2009

ACADEMIC , TRAINING & EDUCTIONAL ACIVITIES

- Chairman of the National Computer Education Committee , Ministry of Education 1996-2000
- Member of the National Computer Education Committee , Ministry of Education 2000-2006
- Author of several text books in computer and information technology for secondary high schools. Ministry of Education 1996
- Chairman and member of the Computer Education Committee , Teachers Colleges , Ministry of Education 1996-2005
- Author for three text books in networking for Community and Technical Colleges
- Member of the Scientific council , Teachers Colleges , Ministry of Education 2000-2006
- Member of Study Plans and Academic System Committee , King Saud university 2003-2012
- Chairman of Appeal Committee for university degree equivalence , Ministry of Higher Education , Saudi Arabia 2008-2009
- Chairman Committee for E-learning and distant learning bylaws development, E-learning center , Ministry of Higher Education , Saudi Arabia ,2008-2009
- Author for three books and several articles in social sciences.
- Principle Advisor for about twenty master thesis , King Saud university
- Advisor for a master thesis, Prince Naif University for security sciences (NUSS).
- Associate Advisor for Ph.D. thesis, higher Judicial Institute, Imam Mohammad bin Saud University (IMBSU).
- Member of thesis examination committee for more than twenty master thesis ,

King Saud university
- Member of several thesis examination committees , Prince Naif University for security sciences (NUSS). 2005-2010
- Associate Advisor for Ph.D. thesis, higher Judicial Institute, Imam Mohammad bin Saud University (IMBSU).
- Examiner, for three Ph.D. thesis's in IMBSU and NUSS and Girls colleges
- Member national IT R&D advisory committee, king Abdul-Aziz City for science & technology 2007
- Member King Saud University Council 2003-2009
- Member of the Scientific council , Teachers Colleges , Ministry of Education 2000-2006
- Member of board of trustee , AlBaha Private college for science. 7/10/1427 2007-now

RESEARCH & SCIENTFIC ACTIVITIES

- Visiting scholar, department of computer science and engineering at Florida Atlantic University. U.S.A Januarys 1990- 1991 *and May 2011-2012*
- A research visitor to GMD and FHG research institutes, Siemens research labs. , West Germany in 1985
- A research visitor to General Electric (GE) Corp. Space Labs. U.S.A in 1989
- A scientific visitor, center of International Cooperation for Computerization in Japan in September 1992.
- Member and Chairman of editorial board , King Saud university Journal – Information and Computer science Branch , 2005-2012
- Contributed to more than fifty scientific papers in research journals and conferences in the fields of computer communication, networking and planning for information technology.

CONFERENCES , SOCIETIES & COMMUNITY SERVICES ACTIVITIES

- A founder of the Saudi Computer Society (SCS) and chairman of the society board of directors ,1988 -Dec. 1992
- A board member of the Saudi Computer Society (SCS) 1994 -Dec. 2004
- A member of various organizational committees of the Saudi National Computer Conference 1986 -2004
- Head of the First and Second National Information Technology symposium organizational committee 2005 , 2008
- Chairman of the SCS academic committee. 1996-2004
- A member of the team who developed the "Saudi IT National Plan" , 2002-2003, approved by the Saudi Council of Ministers 2006
- Panel discussion Speaker , National guard Heritage & Folk culture Festival ,2005
- A member of IEEE, ACM and IASTED societies
- Attendance for more than thirty IEEE , IASTD , ACM conferences 1995-2010
- Session chairman, Information Technology and National Security Conference, 2007

- Panel discussion speaker , Saudi Library and information science conferences , 2007& 2009
- Panel discussion speaker , first International symposium on computers and Arabic language , king Abdul-Aziz City for science & technology , 11/2007
- Panel discussion speaker , Arabic Computational linguistics symposium , Imam Mohammad Bin Saud university 2007
- Session chairman, First International Conference on e-Learning and Distance Learning, The National Centre for E-Learning and Distance Learning ,16 to 18 March 2009 Riyadh, Saudi Arabia
- Attendance Saudi E-Health 2008 & 2010 conferences, Saudi Association for Health Informatics, Riyadh.
- Panel discussion speaker , IT on Islamic and Arabic Sciences symposium , Imam Mohammad Bin Saud university 2008
- Keynote Speaker ," The IT Jurisdiction in confronting the Digital Divide" , Digital Divide Symposium , Islamic Educational, Scientific and Cultural Organization – ISESCO, Tunisia ,5-9 October 2009
- Keynote Speaker ,Saudi Moroccan Culture Week , "The Role of Computing Disciplines in Sustainable Development" , Al Akhawayn University University, Ifrane , Morocco , 2010.

CONSULTATION & PROFESSIONAL ACTIVITIES

- Consultant and a member of various national consultation committees for various government agencies in Saudi Arabia including :
    - General Organization For Technical Education and Vocational Training
    - Ministry Of Foreign Affairs -Diplomatic Institute
    - Ministry Of Hajj and Endowment
    - General Presidency for Girls Education
    - Ministry of PTT
    - Saline Water Conversion Corporation
    - King Abdul-Aziz City for Science and Technology ,
    - Ministry of Transportation
    - Ministry of Education.
    - Ministry of Higher Education
    - Public Transportation Company
    - Alalmia Electronic Company
    - Dr Mandura Office for Engineering Consultation
    - Alalmia Institute for Science and Technology
    - Saudi commission for Health Specialties
    - Board of Grievances
    - Tabouk University
    - Ministry of Information and Communication Technology
    - Center for Distant and E learning, Ministry of Education

AWARDS &GRANTS& PROJECTS

- Saudi government scholarship for graduate study in U.S.A in 1976.
- Research grant for the project, "Recommendation for the Future Development of the Saudi PTT Network", funded by King Abdulaziz City for Science and Technology 1985-1988
- KSU scientific council award for one year research sabbatical leave at Florida Atlantic University. U.S.A. , January 1991
- Research grant RC3/421-422.for the project, " Performance modeling of dial up Internet access traffic over the Saudi Telecommunication Network ", funded by research Center, College of Computer & Information sciences , King saud University , 2004-2005
- Research grant RC02 /24-25 for the project, " Development of planning and Cost Models for Designing A Wide Area Network In Kingdom of Saudi Arabia ", funded by research Center, College of Computer & Information sciences , King Saud University , 2004-2005
- KSU scientific council award for one semester research sabbatical leave at Stanford University. U.S.A. , January 2010
- Research grant for the project, " Design of an Energy Efficient Routing Scheme for Wireless Mobile Sensor Network ", funded by University of Tabuk , Sensor Networks and Cellular Systems Collaborative Research Center (SNCS) , 2011
- Research grant for the project, " A Virtual Server Based Admission Control and Handover Management Systems", funded by University of Tabuk , Sensor Networks and Cellular Systems Collaborative Research Center (SNCS) , 2012

Patents & Patents Application

- United States Patent No.: US 8,606,903 , Date of Patent: Dec. 10, 2013 title: Cooperative Packet Routing for Wirless Sensor Network, Inventors: Sami S. Al-Wakeel (Riyadh, SA) Najla A. Al-Nabhan, US Patent application number: 12/328,662, December 4th, 2008
- Patent application title: "System for Facilitating Participation of Plurality of Pilgrims of Annual pilgrimage", Inventors: Sami S. Al-Wakeel (Riyadh, SA) Mohammad Alwakeel(Tabuk, SA) , Bassem Al-Halabi (Floridia, USA) submitted May 6th 2012, US Patent application number 13478496:
- United States Patent No.: US 8,661,484, Date of Patent: February 25, 2014 title: Dynamic Probability-Based Admission Control Scheme for Distributed Video on Demand System, Inventors: Sami S. Al-Wakeel (Riyadh, SA), Hesham Al-Twejri , Mohammad Ammaddeen, US Patent application number: 13/587,881, Filed August 16, 2012
- Patent application title: "An Autistic child Monitor and Assistant System", Inventors Bassem Al-Halabi (Florida, USA) , Sami S. Al-Wakeel (Riyadh, SA) Mohammad Alwakeel (Tabuk, SA) , Dr. el-Hadi Aggoune US Patent application number: 1.259.13

Publications

[1]   Sami Al-Charchfchi and Sami Alwakeel, "A Voltage Controlled Negative Resistance Device", Electronic Engineering, Vol. 49, 1977.

[2]   Warren Tan; Sami Alwakeel; Hamid Najafi; and James Sytw, "The Design of a Digital Switch", Intelcom '80 Conference Proceeding, Los Angeles, November 1980.

[3]   Sami Alwakeel, "Development of a Distributive Routing, Algorithm", IEEE ICC '83 Proceeding, Boston, USA, June 1983.

[4]   Sami Alwakeel, "A Distributed Software for a Modular Digital Switch", IEEE ICC '84, Amsterdam, May 1984, pp. 536-538.

[5]   Sami Alwakeel, "Performance Evaluation of a Microprocessor Based Digital Telecommunication Controller", 8th Saudi National Computer Conference Proceeding, Al-Khobar, Saudi Arabia, 1985.

[7]   Sami Alwakeel, "Development of an Integrated National Plan for Informatics in the Kingdom of Saudi Arabia", International Journal of Policy and Information, Tamkang University, Taiwan, Vol II, No. 2, Dec. 1987.

[8]   Bruce Lusignan, Amar Badawi, and Sami Alwakeel, "VLSI Based Distributed Control System Architecture for Digital Telecommunication", MIDCON '83 Conference Proceeding, Chicago, September 1983.

[9]   Saad Bakry; M. Samarkandy; and Sami Al-Wakeel, "A Methodology for the Investigation of Telephone Demands in Saudi Arabia", Telecommunication Journal, Vol. 54, (ITU) Geneva, 1987, pp. 38-45.

[10]   Sami Alwakeel, "A Computerized Branch Exchange for Office Communications", The Journal of Engineering Sciences, King Saud University, Vol. 14, No.1, Riyadh, Saudi Arabia, 1988.

[11]   Abdulaziz Al-Swell and Sami Alwakeel, "A Knowledge Based System for Arabic: Retrospective and Prospective", Arab Journal for Humanities, Kuwait University, No. 33, Vol. 1, Winter 1989.

[12]   Saad Bakry; M. Samarkandy; and Sami Al-Wakeel, "Evaluation of Telephone Access Service Contrasts in Saudi Arabia: Riyadh Region vs. Southern Region", The Journal of King Saud University, Vol. 2, Engineering Sciences (1), King Saud University, Riyadh, 1990.

[13]   Sami Alwakeel, M. Samarkandy; and Saad Bakry, "Recent Technology Trends in the Design and Architecture of SPC Switching Systems", 9th National Computer Conference Proceeding, Riyadh, October 1986.

[14]   Saad Bakry; M. Samarkandy; and Sami Al-Wakeel, "Analysis of Factors Require for Investigation of Telephone Demand in Saudi Arabia: IEEE Montech '86 Conference on Antennas and Communication, September 29, 1986, pp. 138-144.

[15]   Sami Alwakeel and Mohammad Ilyas, "R-net : A High Speed Fiber Optics Networks with Reservation Access Protocol", International Journal of Digital and Analog Communication Systems, Vol.5, 1992, pp. 1-13.

[16]   Sami Alwakeel and Sam Hsu, "Modeling and Congestion Analysis of a Multimedia Traffic in an ATM Network Server with Multiservice Disciplines", Journal of Mathematical Modeling and Scientific Computing, Vol.4, 1994.

[17]   Sami Alwakeel and Mohammad Ilyas, "Integrated Transmission of Packetized Voice and Data on a Unidirectional Fiber Optics Bus Network", Computer Communications Journal, Vol. 18, No. 4, April 1995.

[6]   Sami Alwakeel and Mohammed Samarkandi, "Planning for a Satellite Network for Data and Telephony of Rural Areas in Saudi Arabia" (in Arabic), Journal of King Saud University, Computer and Information Division, Vol. 7, 1996.

[19] Sami Alwakeel and Abdullah Alotebi, "Performance Analysis of a Dual Bus Reservation Based Fiber Optics Networks", IEEE International Phenoix Computer Communication Conference (IPCC) '95) Proceedings, March 28-31, 1995, pp. 479-486.

[20] Sami Alwakeel, "Architecture Design of an ATM Switch Based on a High Speed Network", The Journal of King Saud University, Computer and Information Division, Vol. 9, 1997.

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[24] Sami Alwakeel, "Innovation in Computer Education Curriculum for the Computerization of Saudi Arabia: A Model for Developing Countries", IEEE Frontiers in Education FIE 2001, Reno ,Nevada Proceedings, October 10-13, 2001

[25] Abdullah AlWehaibi1, Anjali Agarwal1, Sami AlWakeel2, Nasser-Eddine Rikli2, Ahmed ElHake " Performance Behavior Evaluation of Internet Congestion Control Policing Mechanisms" IEEE Canadian Conference on Electrical and Computer Engineering, CCECE 2003, Montreal, Canada May 4-7, 2003.

[26] Sami S. Al-Wakeel, Abdullah Saleh Al-Obaid "Performance Modeling of A Telecommunications Network With Internet Traffic", IASTED International Conference on Applied Simulation and Modelling (ASM 2003) ,Sept 03-05, 2003 , Mirabella, Spain

[27] Sami Alwakeel, Saad AL-Swailem " PRSA:A Path Redundancy Based Security Algorithm for Wireless Sensor Networks ", IEEE Wireless Communication & Networking Conference (WCNC 2007) ,March 11-15 ,2007, Hong Kong, China.

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[29] Sami Alwakeel, Najla Al-Nabhan, "COOPERATIVE PACKET ROUTING FOR WIRELESS SENSOR NETWORKS", US patent bending, application No. 12/328662, 12/4/2008

[30] Sami Alwakeel, "Development of planning and Cost Models for Designing A Wide Area Network In Kingdom of Saudi Arabia ", Research Report #9, Research Center, College of Computer and Information Sciences, King Saud University, 2009

[31] Sami Alwakeel, "Local Area Network", textbook published by King Saud University Scientific Council,2009 .

[32] Sami S Alwakeel, "Bandwidth Provisioning Models for a Large Scale IP-based Video-on-Demand Broadband Network", Egyptian computer science Journal, (ECS), Vol 33, No. 1, September 2009

[33]   Sami Alwakeel and Agung Prasetijo , "A Policy-Based Admission Control Scheme for Voice over IP Networks " , Journal of Computer Science 5(11) , Science Publications : 817-821, 2009

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[35] D M Barakah & Sami S. Alwakeel , "Impact of CPOE on Physicians and Dentists' Work Performance at King Saud Medical Complex Hospital: A Case Study" Proceedings of the World Congress on Engineering and Computer Science 2009 Vol I WCECS 2009, October 20-22, 2009, San Francisco, USA pp296-298

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[40] Sami Al-Wakeel, Muhammad Ammad-udDin, " A Class Based and Shared Resources Access Control for Distributed Video-on-Demand system ", IEEE International Conference on Intelligent Network and Computing (ICINC 2010), Kuala Lumpur, Malaysia , November 26 - 28, 2010

[41] Sami Alwakeel , Nasser M. Alotaibi, "End to End Measurement Based Admission Control VOIP Protocol with Loss Policy" , Journal of king Saud University - Computer and Information Sciences branch , Vol. 23 , No. 1 , January 2011

[42] Sami Alwakeel and Agung Prasetijo, " Probability Admission Control in Class-based Video-on-Demand System", IEEE International Conference on Multimedia Computing and systemms (ICMCS'2011), Ouarzazate, Morocco , April 07 - 09, 2011

[43] Sami Al-Wakeel, Hesham Abdulaziz Altwaijry, Muhammad Ammad-udDin, " Linear probability based admission control policy for video on demand system", **International Journal of the Physical Sciences Vol. 6(36), pp. 8120 - 8129, 30 December, 2011**

[44] Sami Al-Wakeel, Muhammad Ammad-udDin, " Bayesian based Admission Control (BAC) Policy for Distributed Video-on -Demand System ", International Journal of INFORMATION, International Information Institute, JapanVol.15, No.8, August, 2012 Japan, pp.3603-3610 2   http://www.information-iii.org/abs_e2.html

[45] Sami Al-Wakeel, Hesham al-Twejri , Muhammad Ammad-udDin, " Dynamic probability Based admission Control scheme for distributed Video on demand system" , Patent pending , US Patent office , Application Number 13587881 on 16/08/2012

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.
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 [49] Sami Al-Wakeel, Shaker S. AlGhanmi, " A Real Time Leaky Bucket Based Admission Control Scheme for VOIP Networks", IEEE International Conference on Multimedia Computing and systemms (ICMCS'2012), Tangier , Morocco , May 10 - 12, 2012
[50] Sami Al-Wakeel, Hesham Altwaijry , Muhammad Ammad-uddin , "'Class Based P- Persistent Scheme for Smart Grid Load Balancing'" The 2012 IEEE Electrical Power and Energy Conference (EPEC 2012) , London, Ontario, Canada , October -12, 2012
[51] Sami Al-Wakeel, Adel AlBahouth , " An Adaptive Sender-Based VoIP Loss-Recovery Technique " The Australasian Telecommunication Networks and Applications Conference (ATNAC 2012) , 7-9 th November 2012, Brisbane, Australia

[52] Sami Al-Wakeel, Najla A. Al-Nabhan, " A Cooperative Learning Scheme for Energy Efficient Routing in Wireless Sensor Networks " The IEEE 11th International Conference on Machine Learning and Applications ICMLA 2012, 12-15 December 2012 Boca Raton , Florida, USA .

[53] Sami AlWakeel, Muhammad Ammad-uddin , "A Soft Computing System for Resource Management of Femtocell Networks" The 2013 International Conference on Soft Computing and Software Engineering (SCSE 2013) , San Francisco, Ca, USA , March -12,2013

[54] Sami AlWakeel, Musaed A. Alhussein , Muhammad Ammad-uddin , "Performance Analysis of Centralized, Distributed and Hybrid Demand Load Control Architecture for Smart Power Grid" The 2013 IEEE Conference on

Electro/Information Technology (EIT 2013) , South Dakota School of Mines & Technology , Rapid City, SD, USA, May 9-11, 2013

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[61] Sami AlWakeel, Muhammad Ammad-uddin , "A Soft Computing System for Resource Management of Femtocell Networks" The International Journal of Soft Computing and Software Engineering ([JSCSE) ,Vol. 3, No. 3, pp. 692-699,March 2013

[62] Sami S Alwakee, Bassem Alhalabi, Mohammed Alwakeel ." Advanced Cloud-based Systems and Smart Mobile Devices for Mega Event Pilgrimage Ritual Management" , A white paper for industrial talk session ,The 11th Annual IEEE Consumer Communications and Networking Conference (CCNC2014) , Las Vegas, USA, Jan. 10-13, 2014

[63] Sami S Alwakeel, Bassem Alhalabi, Mohammed Alwakeel ." Perspectives on System-of-Systems for Pilgrimage Ritual Guidance and Management" , **IEEE**

International Systems Conference (SysCon 2014) , Ottawa , Canada , March. 31-April 3rd , 2014

[64] Sami Alwakeel* and Agung Prasetijol ." A Virtual P-Persistent Bandwidth Partitioning Manager for VANET's Broadcast Channel" , The 4th International , Marrakesh, (Conference on Multimedia Computing and Systems (ICMCS'14 Morocco, April 14-16 2014

[65] Deena M Barakah , Ayman M Alrobia , Sami Alwakeel . " Strategic Plan and Development Projects for Modern Health Clinical Information Systems at King Saud Medical City" , International Conference on Information Systems Engineering (iCISE 2014) , May 9-10. 2014. Hays , USA

[66] Deena M Barakah , Ayman M Alrobia , Sami Alwakeel . " Strategic Plan and Development Projects for Modern Health Clinical Information Systems at King Saud Medical City" , International Journal of Information and Electronics Engineering, Vol. 4, No. 4, July 2014, PP 317-324

[67] Mohammad Ilyas,   Sami S. Alwakeel,   Mohammed M. Alwakeel,   el-Hadi M. Aggoune , (Book Editor) "Sensor Networks for Sustainable Development" , CRC Press , June 25, 2014

[68] Sami Al-Wakeel, Agung Prasetijol " Intelligent Control Mechanisms for Vehicular Sensor Networks" , Book Chapter 18 in Sensor Networks for Sustainable Development , Edited By: Mohammad Ilyas,   Sami S. Alwakeel,   Mohammed M. Alwakeel,   el-Hadi M. Aggoune , CRC Press , June 25, 2014

[69] el-Hadi M. Aggoune , Sami Al-Wakeel, Mohammed Alwakeel , Muhammad Ammad-uddin ; "Wireless Sensor Networks with Dynamic Nodes for Water and Crop Health Management " , Book Chapter 2 in Sensor Networks for Sustainable Development , Edited By: Mohammad Ilyas,   Sami S. Alwakeel,   Mohammed M. Alwakeel,   el-Hadi M. Aggoune , CRC Press , June 25, 2014

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[77] Nasser Alotaibi; Sami Alwakeel; "A Neural Network Based Handover Management Strategy for Heterogeneous Networks" ; IEEE 14th International Conference on Machine Learning and Applications (IEEE ICMLA'15) , Miami, Florida, USA, December 9-11, 2015

[78] Sami S Alwakeel, Bassem Alhalabi, el-Hadi M. Aggoune, Mohammed Alwakeel ." A Machine Learning Based WSN System for Autism Activity Recognition" , IEEE 14th International Conference on Machine Learning and Applications (IEEE ICMLA'15) , Miami, Florida, USA, December 9-11, 2015

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