

**NAME:** **Abdulmotaleb El Saddik**, Professor and University Research Chair, FIEEE, FCAE, FEIC, SM' ACM, P.Eng.  
 Member of School of Graduate Studies and Research: yes  
 Faculty of Engineering - School of Information Technology and Engineering (SITE)  
 University of Ottawa  
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**Web:** <http://www.mcrlab.uottawa.ca>  
**Email:** [abed@mcrlab.uottawa.ca](mailto:abed@mcrlab.uottawa.ca)  
**Director:** Multimedia Communications Research Laboratory (MCRLab)

**DEGREES:** **Dr.-Ing.** (Ph.D.) Department of Electrical Engineering and Information Technology, Darmstadt University of Technology, Germany, 2001  
**Dipl.-Ing.** Department of Electrical Engineering and Information Technology, Darmstadt University of Technology, Germany, 1995

**POSITIONS HELD:**

05/2008 - Professor, School of Information Technology and Engineering, University of Ottawa, Canada  
 2005 – 2008 Director of Information Technology Cluster, Ontario Research Network on Electronic Commerce (<http://www.ornec-ict.uottawa.ca/>)  
 2005 – 2008 Co-Leader of theme 5 of NSERC Learning Objects Repositories Network “LORNET” (<http://www.lornet.org>)  
 05/2004–04/2008 Associate Professor, School of Information Technology and Engineering, University of Ottawa, Canada  
 01/2002–04/2004 Assistant Professor, School of Information Technology and Engineering, University of Ottawa, Canada  
 03/2001–12/2001 Assistant Professor, Department of Electrical Engineering and Information Technology, Darmstadt University of Technology, Germany  
 08/2001–11/2001 Software development (Human Computer Interaction) consultant, Exet-AG, Germany  
 11/1996–02/2001 Research Associate, Department of Electrical Engineering and Information Technology, Darmstadt University of Technology, Germany  
 01/1996–10/1996 Technical Manager, Al-Hussam Establishment, Lebanon  
 06/1995–12/1995 Field engineer, Dept. of Information Systems, Hartmann & Braun, Germany

**HONOURS & AWARDS:**

2010 Fellow of the Engineering Institute of Canada (FEIC)  
 2009 Fellow of the Canadian Academy of Engineering (FCAE)  
 2009 Fellow of the Institute of Electrical and Electronics Engineers (FIEEE)  
 2009 ACM Multimedia 2009 Grand Challenge Most Entertaining Award for the “HugMe: Synchronous Haptic Teleconferencing” System  
 2009 Certificate of Recognition for valuable contribution to the organization of the Engineering Students Ethics Competition (ESEC 2009), Sharjah, UAE  
 2008 BEST Paper Award for “ALPHAN: A Haptic Enabled Protocol with Multi-User Collaboration”, at ACM/IEEE DS-RT 2008  
 2008 ACM SIG MM Recognition for contributing to the success of ACM MM 2008 as General Chair  
 2008 Professional of the Year Award, Canadian Lebanese Chamber of Commerce and Industry  
 2008 ACM recognition as ACM Senior Member  
 2008 IEEE Recognition of Service Award for outstanding organization of I<sup>2</sup>MTC 2008  
 2008 Travel Grant Award for the paper “Learning Multi-Sensor Confidence using Difference of Opinions”, 2008 IEEE Intl' Instrumentation and Measurement Technology Conference (I<sup>2</sup>MTC 08)  
 2007 University of Ottawa Research Chair in Ambient Interactive Media and Communications  
 2007 Friedrich Wilhelm Bessel Research Award from the Alexander von Humboldt Foundation  
 2007 Chair TC-37 Measurements and Networking, IEEE Instrumentation & Measurement Society, 2007 –

- 2007 IEEE Recognition for outstanding organization of HAVE 2007
- 2007 ACM Recognition of Service Award in appreciation for contributions to ACM/IEEE DS-RT 2007
- 2007 Certificate of Appreciation from the Physicians and Students of the countries of the Gulf Cooperation Council (GCC)
- 2007 Best Paper Award for "A Dominating Set Based Peer-to-Peer Protocol for Real-Time Multi-Source Collaboration" at the 3rd IEEE International Workshop on Collaborative Service-oriented P2P Information Systems (COPS 2007)
- 2006 Best paper Award (Honor Article) "Graphical Password with Haptics", 6<sup>th</sup> International Conference on Virtual Concept, Cancun, Mexico, 26th Nov. – 1st Dec 2006
- 2006 IEEE Distinguished Lecturer, IEEE Instrumentation and Measurement Society
- 2006 International WHO'S WHO Historical Society
- 2006 Best Short-Paper/Demo Award at the 2006 annual Intelligent Interactive Learning Object Repositories Conference (I2LOR-2006), Montreal Canada
- 2004 Certificate of Appreciation from IEEE – GCC Section
- 2004 Premier's Research Excellence Award (PREA)
- 2004 National Capital Institute of Telecommunications (NCIT) New Professorship Incentive Award
- 2004 Recipient of one of the three Best paper award for "Architecture and Evaluation of Tele-Haptic Environments" at the 8<sup>th</sup> IEEE DS-RT
- 2003 IEEE recognition as IEEE Senior Member
- 1998 Best Demo-Award: ACM-Multimedia 98, Bristol, England
- 1987 Best scholar in mathematics, Ecole Secondaire Rawdat Al Fayhaa, Tripoli, Lebanon
- 1986 Best scholar in mathematics, Ecole Secondaire Rawdat Al Fayhaa, Tripoli, Lebanon

### **PROFESSIONAL ASSOCIATIONS**

- Fellow of the Engineering Institute of Canada (**FEIC**)
- Fellow, Institute of Electrical and Electronic Engineers (**FIEEE**)
- Fellow of the Canadian Academy of Engineering (**FCAE**)
- Senior Member, Association for Computing Machinery (SM' ACM)
- Member, IEEE Instrumentation and Measurement Society
- Member, IEEE Computer Society
- Member, IEEE Robotics and Automation Society Membership
- Member, Professional Engineers of Ontario, 2004

### e) SCHOLARLY AND PROFESSIONAL ACTIVITIES:

#### **1) University of Ottawa**

- Sept 2005 – Dec. 2005 Member of SITE Director Selection Committee
- July 2005 – June 2008 Director: Information Technology Cluster, Ontario Research Network on Electronic Commerce
- July 2005 – Founding Director of Graduate Certificate in Graduate Certificate in Modelling and Animation for Computer Games Technology
- July 2004 – June 2008 Member of SITE Teaching Personal Committee (STPC)
- July 2003 – June 2006 Member of the Engineering Faculty Council of the University of Ottawa
- July 2003 – June 2005 Member of the SEG curriculum committees
- July 2003 – June 2008 Member of SITE Professors Appointment Committee (SAC)
- July 2002 – June 2003 Member of the CEG curriculum committees
- Jan. 2002 – June 2003 Member of the grad admissions committee of computer science (OCICS)
- Jan. 2002 – Director: Multimedia Communications Research Laboratory (MCRLab)

#### **2) Boards**

- 2009 - Member of the ACM SIG-Multimedia Best PhD Award Committee
- 2002 - External reviewer for NSERC research grants applications (DISCOVERY, Strategic, Special Research Opportunity, Idea to Innovation, etc.)
- 2007 External reviewer for the Knowledge Media Design Institute at the University of Toronto
- 2005 – 2008 Chair of the Information Technology Cluster, Ontario Research Network on Electronic Commerce (Overseeing around 20 research projects - budget of about \$4M.)
- 2002 – 2007 Member of the Advisory Board of the Nortel Networks Advanced Software Engineering Research and Training (ASERT) Laboratories of the University of Ottawa and Carleton University.
- 2001 – Referee for the Research Council of Norway "Basic Research in ICT" (Information and Communication

Technology).

### 3) Editorial Boards

- 2009 – Associate Editor IEEE Transactions on Multimedia (IEEE TMM)
- 2009 – Guest Editor, IEEE Transactions on Instrumentation and measurements, Special Issue on I<sup>2</sup>MTC 2008
- 2009 – Associate Editor, Journal of Emerging Technologies in Web Intelligence (JETWI)
- 2008 – Associate Editor IEEE Transactions on Computational Intelligence and AI in Games (IEEE TCIAIG)
- 2008 – Associate Editor International Journal on Smart Sensing and Intelligent Systems
- 2007 – Associate Editor, ACM Transactions on Multimedia Computing, Communications, and Applications (ACM TOMCCAP)
- 2006 – Associate Editor, Journal of Multimedia (JMM), Academy Publisher
- 2008 – Associate Editor International Journal of Advanced Media and Communication (IJAMC)
- 2008 – Guest Editor, IEEE Transactions on Instrumentation and measurements, Special Issue on Haptic Audio Visual Environments and Applications
- 2008 – Guest Editor, ACM/Springer Journal on Mobile Networks and Applications, Special Issue on “Ambient Media and Systems”
- 2007 – Guest Editor, IEEE Transactions on Instrumentation and measurements, Special Issue on Virtual Environments, Human-Computer Interfaces and Measurement Systems
- 2007 – Guest Editor, ACM/Springer Multimedia Systems Journal, Special Issue on: Collaborative Haptic Audio Visual Environments and Systems
- 2007 – Guest Editor, SCS Transactions on simulation, Special issues on distributed systems and real time collaborative environments
- 2006 – Guest Editor, Journal of Multimedia Tools and Applications, Special Issue on Collaborative Haptic Audio Visual Systems and Applications
- 2005 – 2008 – Editor-in-Chief, International Journal of Advanced Media and Communication (IJAMC)
- 2005 – Guest Editor, International Journal of Computer Applications in Technology, Special Issue on “Collaborative Multimedia Applications in Technology”
- 2002 – 2006 – Associate Editor of the ACM Journal of Educational Resources in Computing (JERIC)
- 2002 – 2005 – IEEE: Distributed Systems Online, editor on the Distributed Multimedia sub area

### 4) Keynotes/Invited lectures/talks

- Sept. 2009 – “A Glimpse of Ambient Intelligence”, ISSSPA, Oran Algier
- Mar. 2009 – “Emerging Multimedia Technology”, Higher Colleges of Technology’s Abu Dhabi Women’s College, United Arab Emirates
- Mar. 2009 – “Haptics Technologies: Theory and Applications”, University of Kuwait, Kuwait
- Mar. 2008 – “State of the Art and Challenges of Collaborative Hapto-Audio-Visual Environments”, University of Mannheim, Germany
- Feb. 2008 – “Ambient Environments and Social Networks” Panelist at Ambi-Sys 2008, Quebec, Canada
- Feb. 2008 – “Challenges of the design of Collaborative Hapto-Audio-Visual Environments”, Technical University Munich, Germany
- July 2007 – “Collaborative Hapto-Audio-Visual Environments” IEEE Branch, Malaysia
- July 2007 – “Ambient Intelligent Systems” University of Malaysia, Malaysia
- June 2007 – “Collaborative Hapto-Audio-Visual Environments” Technical University Darmstadt, Germany
- June 2007 – “Collaborative Hapto-Audio-Visual Environments” University of Kassel, Germany
- Dec. 2006 – “Future directions in Multimedia research”, panelist of IEEE ISM 2006
- April 2006 – “Ambient Intelligent Haptic Environments” Kiel University of Applied Sciences, Germany
- April 2006 – “Beyond the “E”, where are we in the domain of Multimedia Communications”, Arabic Science and Technology Foundation (ASTF), Alexandria, Egypt
- May 2005 – “Haptic Collaborative Virtual Environments and Applications”, Kiel University of Applied Sciences, Germany
- Nov. 2004 – “Trends in Multimedia Communications”, IEEE Golf Region, Bahrain
- Oct. 2003 – “An introduction to Multimedia Technologies & Applications on the web”, IEEE Ottawa Section, Ottawa, Canada
- April 2003 – “Web Services suitability for collaborative e-learning environment”, LICEF, Montreal, Canada
- August 2002 – “Multimedia Communications”, NRC, Ottawa, Canada

### 5) Conference Organization

- 2010 – Member of the Advisory board of the IEEE International Instrumentations and Measurements Technical

- Conference I2MTC 2010
- 2010 **General Chair** of the IEEE Int'l Symposium on Haptic Virtual Environments and Games, October 2010, Phoenix, Arizona, USA
- 2010 **Technical Program Co-Chair** of the 10<sup>th</sup> International Conference on Information Sciences, Signal Processing and their applications (ISSPA 2010)
- 2010 **Technical Program Co-Chair** of the 14<sup>th</sup> International Symposium on Distributed Simulation and Real Time Applications 2010
- 2010 **Track Co-Chair** of International Conference on Multimedia Computing and Information Technology (MCIT-2010), Sharjah, UAE
- 2009 **Technical Program Co-Chair** of the ACM Multimedia Conference 19-24 Oct. 2009 in Beijing, China.
- 2009 **Technical Program Co-Chair** of the IEEE International Conference on Virtual Environments, Human-Computer Interfaces and Measurement Systems in Hong Kong
- 2009 **General Chair** of the IEEE Int'l Workshop on Haptic Virtual Environments and Games, October 2009, Locarno, Italy
- 2009 **Technical Program Co-Chair** of the 13<sup>th</sup> International Symposium on Distributed Simulation and Real Time Applications 2009
- 2008 **General Chair** of the ACM Multimedia Conference, Vancouver, BC, Canada, 2008
- 2008 **Technical Program Co-Chair** of the 12<sup>th</sup> International Symposium on Distributed Simulation and Real Time Applications 2008
- 2008 **Technical Program Co-Chair** of the I<sup>2</sup>Mtc2008 - IEEE International Instrumentation and Measurement Technology Conference Victoria Island, BC, Canada, 2008
- 2008 **Technical Program Co-Chair** of the First International Conference on Ambient Media and Systems (Ambi-Sys 2008), Quebec City, Quebec, Canada, 2008
- 2008 **Chair** of Semantic-Web Resource Repository Design, Search and Management –LORNET- Workshop at the ITS 2008 Conference, June 23, 2008
- 2007 **General Chair** of the IEEE Int'l Workshop on Haptic Virtual Environments and their Applications, October 2007, Ottawa, Canada
- 2007 **Technical Program Co-Chair** of the 11<sup>th</sup> International Symposium on Distributed Simulation and Real Time Applications 2007
- 2006 **General Chair** of the IEEE Int'l Workshop on Haptic Virtual Environments and their Applications, November 2006, Ottawa, Canada
- 2006 **General Chair** of the Intelligent Interactive Learning Object Repositories (I2LOR 2006) conference, November 6-10, 2006, Montreal, QC, Canada
- 2006 **Technical Program Chair** of 2006 IEEE International Conference on Virtual Environments, Human-Computer Interfaces and Measurement Systems, La Coruña, Spain, 10-12 July 2006
- 2006 **Technical Program Co-Chair** of IEEE CCECE 2006 the Canadian Conference on Electrical and Computer Engineering, Ottawa, Ontario, Canada, May 7 - 10, 2006.
- 2005 **General Chair** of the fourth IEEE International Workshop on Haptic Virtual Environments and their Applications, 1-2 October 2005, Ottawa, Ontario, Canada
- 2005 **Publication Co-Chair** of the IMTC2005 - IEEE Instrumentation and Measurement Technology Conference Ottawa, Ont., Canada, 16-19 May 2005
- 2005 **Posters/Demos Chair** of the 9<sup>th</sup> International Symposium on Distributed Simulation and Real Time Applications 2005, Montreal, Qc. Canada, October 10-12, 2005
- 2004 **General Chair** of the third IEEE International Workshop on Haptic Virtual Environments and their Applications, 2-3 October 2004, Ottawa, Ontario, Canada
- 2004 **Posters/Demos Chair** of the 8th International Symposium on Distributed Simulation and Real Time Applications 2004, October 21-23, 2004, Budapest, Hungary
- 2003 **Technical Program Co-Chair** of IEEE International Workshop on Haptic Virtual Environments and their Applications, 20 – 21 September 2003, Ottawa, Ontario, Canada
- 2003 **Vice-chair** for the Topic 16: “Distributed Systems and Distributed Multimedia” International Conference on Parallel and Distributed Computing, 26th - 29th August 2003 in Klagenfurt, Austria of the Euro-Par 2003
- 2002 **Technical Program Chair** of IEEE International Workshop on Haptic Virtual Environments and their Applications, 17 – 18 November 2002, Ottawa, Ontario, Canada
- 2000 **General Co-Chair** of the Second International Workshop on Software Engineering and Multimedia Applications, Baden-Baden, Germany, August 2000

**Program committee member**

1. ACM Multimedia Conference, 2005 – 2010
2. IEEE International Instrumentation and Measurement Technology Conference, 2005 – 2010
3. International Conference on Embedded and Multimedia Computing (EMC-10), 2010
4. IEEE International Workshop on Haptic Virtual Environments and their Applications, 2002 – 2010
5. International Conferences on Active Media Technology (AMT 2010)
6. IEEE Pacific-Rim Conference on Multimedia (PCM), 2009
7. IFIP Wireless Days conference, 2009
8. Symposium on Haptic Interfaces for Virtual Environments and Teleoperator Systems, 2008, 2010
9. International workshop on haptics in ambient media systems (HAS), 2008, 2009
10. International Workshop on Haptic and Audio Interaction Design (HAID), 2006, 2007, 2008, 2009
11. IEEE-Workshop - Multimedia Aspects in Pervasive Healthcare, 2009
12. ACM Workshop on the Many Faces of Multimedia Semantics, 2009
13. 4th international conference on digital information management (ICDIM), 2009
14. IEEE Canadian Conference on Electrical and Computer Engineering (CCECE), 2006, 2007, 2008, 2009
15. International Conference on Signals, Circuits and Systems (SCS 2009) - "Systems, Automation, and e-Learning" Track - , 2009
16. The Fourth International Conference on Signal-Image Technology & Internet-Based Systems (SITIS' 2008)
17. ACM Workshop on Educational Multimedia and Multimedia Education (EMME 2007) 2007
18. International Workshop on Ambient Intelligence, Media, and Sensing (AIMS07), 2007
19. International Conference on Sensing Technology (ICST), 2007
20. IEEE International Conference on Virtual Environments, Human-Computer Interfaces and Measurement Systems (VECIMS), 2005, 2006, 2007, 2008, 2009
21. IEEE International Conference on Signal Processing and Communications (ICSPC), 2007
22. EuroHaptics conference, 2006
23. IEEE International Workshop on RObotic and SEnsors Environments (ROSE), 2006, 2007, 2008, 2009
24. IEEE International Symposium on Multimedia (IEEE ISM), 2006, 2007
25. IEEE International Conference on Computational Intelligence for Measurement Systems and Applications (CIMS) 2006, 2007, 2008, 2009
26. International conference Innovations in Information Technology (IIT), 2007
27. The Virtual Concept Conference, 2006
28. International Conference on Web Information Systems and Technologies, 2005, 2006, 2007
29. International Conference on Signal Processing and Multimedia Applications, 2006, 2007, 2008
30. International Conference on Multimedia & Expo (ICME) 2007, 2008, 2009
31. MCETECH, Montreal Conference on Internet Technologies, 2005, 2006, 2007
32. International Symposium on Collaborative Technologies and Systems (CTS) 2003, 2004, 2005, 2006, 2007
33. International Workshop on Web Engineering, in conjunction with ACM Hypertext 2004, 2005
34. NOTERE, NOuvelles TEchnologies de la Répartition, 2005, 2006
35. International Conference on E-business and Telecommunication Networks (ICETE), 2005
36. International Conference on Communication Systems and Applications (CSA), 2004, 2005
37. International Arab Conference on Information Technology (ACIT), 2002, 2003, 2004, 2005, 2006
38. World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education", 2002, 2003
39. International conference on Parallel Processing (ICPP), 2003
40. Global Services and Infrastructure for Next Generation Networking, (ICC) 2003
41. ACS/IEEE International Conference on Computer Systems and Applications (AICSSA), 2003
42. Synergien zwischen virtueller Realität und Computerspielen: Anforderungen, Design, Technologien  
Gemeinsame Jahrestagung der GI und OCG / 2001 NFORMATIK 2001

f) **RESEARCH SUPERVISORSHIPS (CAREER)**

	<u>Total</u>	<u>Completed</u>	<u>In Progress</u>
• Postdoctoral	5	3	2
• Ph.D.	16	6	10
• Master's	44	37	7
• Research Engineers	4	2	2
• Visiting Scholars/Eng./Scientists	3	3	0
• Co-op/undergrad. Students	66	66	0
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<b>Career Total</b>	<b>138</b>	<b>116</b>	<b>21</b>

**Visiting researchers & post-doc: Completed: 3, In Progress: 3**

1. **Dr. Jongueun Cha**, “Collaborative Haptics Environments”, Sept. 2007 –
2. **Dr. Heung-Nam Kim**, “Social media search personalization”, Sept. 2009 –
3. **Dr. Rosa Iglesia**, “Haptic-based rehabilitation System”, Jan. 2007 – July 2007
4. **Dr. Pradeep Kumar Atrey**, “Multimedia Telesurveillance systems”, August 2006 – June 2008
5. **Dr. Alexandre Miede**, “Security in Service Oriented Architecture”, May 2006 – Sept. 2007
6. **Dr. Dongsik Kim**, “E-Learning” July 2005 – June 2006
7. **Dr. Abdullah Al Ghamedi**, “Web Engineering”, May 2004 – June 2006
8. **Mrs. Manli Zhong**, “Security issues in Web Services”, Nov. 2002 – Nov. 2003

**A) NAME OF STUDENTS currently supervised and year of first registration:**

**Ph.D.**

1. **Md. Anisur Rahman**, “Multimedia Databases and Metadata” Sept. 2003 –
2. **Md. Abdur Rahman**, “Towards a Framework to bridge the gap between sensor network and social network in E-Health domain”, Sept. 2005 –
3. **Fawaz Al-Sulaiman**, “Haptics Graphical Password”, Sept. 2006 –
4. **Mahfujur Rahman Kafi**, “Multimodal Interactions” May 2007 –
5. **Juan Manuel Silva Salmeron**, “Web 3.0 and Context Aware Health Systems” Sept. 2007 –
6. **Abdelwahab Hamam**, “Quality of Experience in Hapto-audio-visual data”, Sept. 2007
7. **Mohamad Hoda**, , January 2008 –
8. **Eric Torunski**, “Ambient Intelligence & Energy”, Sept. 2009
9. **Ali Karime**, “”, Sept. 2009
10. **Majdi Rawashjeh**, “”, May 2010

**M.A.Sc/M.Eng.**

1. **Abdulmajeed S. Al-Khaldi**, “design and development of Ubiquitous Health Environment”, Sept. 2008
2. **Majed Alowaidi**, Sept. 2008
3. **Mohammed Alhamid**, Sept. 2008
4. **Rana AbaAlkhail**, Jan 2009
5. **Al-Oufi Samah**, Sept. 2009
6. **Hossain, SK Alamgir**, Jan. 2010
7. **Alshareef Abdulrahman**, Jan. 2010
8. **Alsunaid Abdulsalam**, Jan. 2010
9. **Masudul Alam**, May 2010

## **B) Graduate Theses Supervisions Completed**

### **Ph.D.**

	<b>Name</b>	<b>Degree</b>	<b>Thesis Title</b>	<b>Year</b>	<b>Employer</b>
P6	<b>Atif Alamri</b>	PhD	Towards a Framework for Post-Stroke Interactive and Entertaining Rehabilitation with ReActive Objects	2010	King Saud University
P5	<b>M. Anwar Hossain</b>	Ph.D	Context-Quality Adaptive Interaction in Pervasive Environments	2010	King Saud University
P4	<b>Mohamad Eid</b>	Ph.D	Admux: An Adaptive Multiplexing Framework for Haptic-Audio-Visual Communication	2010	University of Ottawa
P3	<b>Mohammad Shamim Housain</b>	Ph.D.	Towards a Biologically-Inspired Framework for Multimedia Service Management	2009	King Saud University
P2	<b>Andrew Rocznik</b>	Ph.D.	Improving Robustness of Service-based Applications by Leveraging Inter-Service Redundancy	2008	Signiant, Ottawa, ON, CA
P1	<b>Mauricio Orozco</b>	Ph.D.	A Biometrics-embedded System based on Haptics for User Authentication in Virtual Environments	2007	Bestech, Sudbury, ON, CA

### **Masters**

	<b>Name</b>	<b>Degree</b>	<b>Thesis Title</b>	<b>Year</b>	<b>Employer</b>
M38	<b>Sanaa Ali Muhaureq</b>	MASc.	Design and Implementation of Echolocation Optimization Algorithm and its Application in Wireless Networks	2010	UAE
M37	<b>Zaffarulla Ansari</b>	MSC.	Context-Aware Multimedia Systems and Applications	2009	NA
M36	<b>Lara Rahal</b>	MASc.	Continuous Tactile Perception Algorithms for Vibrotactile Displays	2009	Ph.D. Uni. Of Ottawa
M35	<b>Ahmad Barghout</b>	MASc.	Improving Depth Perception in 3D Environments Using Funneling Illusion	2009	Ph.D. Uni. Of Ottawa
M34	<b>Sadek Hamdan</b>	MASc.	Context Aware Layout Manager For Video Conferencing Systems	2009	SW-Architect
M33	<b>Ali Karime</b>	MASc.	The Magic System: An Ambient Edutainment System For The Young Children	2009	Ph.D. Uni. Of Ottawa
M32	<b>Bassem Barake</b>	MASc.	Towards an Intelligent Surveillance System for Public Security at Crowded Places	2009	NORTEL
M31	<b>Hussein Al Osman</b>	MASc.	Application Layer Protocol For Haptic Networking	2008	NORTEL
M30	<b>Hicham Ibrahim</b>	MASc.	Semantic Similarity based Trust Computation in Websites	2008	Medical School
M29	<b>Reza Ghasemaghaei</b>	MCS.	Routing in Wireless Sensor Networks: an Ant-inspired approach	2008	TBD
M28	<b>Dia Elghobary</b>	MASc.	AntNet Based Routing Algorithms for Resource Constrained Networks	2008	Palm, LA

M27	<b>Md. Mahfujur Rahman</b>	MCS.	Suitability Of Searching and Representing Multimedia Learning Resources in a 3d Virtual Gaming Environment	2007	Ph.D. Uni. Of Ottawa
M26	<b>Fayez El-Far</b>	MCS.	Invictus: A Real-Time Haptic Data Repository Architecture	2007	First Memories, Ottawa, ON
M25	<b>Vicky Laurens</b>	M.Sc.	DDoSniiffer: An Attack Detection Tool for Detecting TCP-Based Distributed Denial of Service Attack Traffic at the Agent Machines	2006	Telus, Toronto, ON
M24	<b>Ismail Shakra</b>	MASc.	Design and Development of a Virtual Reality Haptic-based Rehabilitation Framework for Post-Stroke Patients	2006	SW-Designer, Dubai
M23	<b>Jun Hu</b>	MCS.	Secure Collaborative Environments in a Service Oriented Architecture	2006	Health Canada, Ottawa, ON
M22	<b>Fawaz Al-Sulaiman</b>	MCS.	Design and Development of a Three Dimensional Password Scheme	2006	Ph.D. Uni. Of Ottawa
M21	<b>Nassib Elkadri</b>	MCS.	Usability Evaluation Tool for E-learning Applications	2006	TBD
M20	<b>Abderrazzaq Bounagui</b>	MCS.	Improvement of the video capture object in Peer to Peer collaborative environment (PECOLE)	2006	TBD
M19	<b>Majdi Rawashdeh</b>	MCS.	Classification of today's Distance Educational Approaches and Tools	2006	PhD @ Uni. Of Ottawa
M18	<b>Utpal Acharjee</b>	M.Sc.	Personalized and Artificial Intelligent Web Caching and Prefetching	2006	Adga Group, Ottawa, ON
M17	<b>Nassib El Kaderi</b>	MCS.	Ergonomic Design of User Interfaces for Distributed Learning Object Repositories	2005	Government
M16	<b>Jianming Ke</b>	MCS.	Role and Action-Driven Access Control for Web Services-Oriented E-learning Portal	2005	N-able, Ottawa, ON
M15	<b>Deyang Liu</b>	MCS.	Web Services Composition in Sensor Network	2005	Global IQX, Ottawa, ON
M14	<b>Kai Wang</b>	M.Sc.	Framework Design of Web-services based E-learning Portal System	2005	Metasolv software, Ottawa, ON
M13	<b>MD. Abdur Rahman</b>	MASc.	Design and Development of P2P Multilingual Collaborative Multimedia Tool	2005	Ph.D. Uni. Of Ottawa
M12	<b>Jean Nehme</b>	MCS.	Effectiveness of current Defense Strategies of Distributed Denial of Service	2005	NORTEL Networks
M11	<b>Souhail Abdala</b>	MCS.	PECOLE: Peer-To-Peer Collaboration Environment	2005	Canada Revenue Agency
M10	<b>Ding Huaizhou</b>	MCS.	J3D: Jabber 3D Game	2005	TBD
M9	<b>M. Anwar Hossain</b>	MCS.	Lornav: A Web-Based Tool For Personalized 3d Navigation Of Distributed Learning Object Repositories	2005	Ph.D. Uni. Of Ottawa
M8	<b>Yong Zhong</b>	MASc.	Proxy-Based Single Source Application Layer Multicast Media Streaming	2005	SIPQuest, Ottawa, ON
M7	<b>Ali Abbas</b>	M.Sc.	"Analysis and Design of an Internet's Security Taxonomy"	2004	Ph.D. Uni. of Ottawa

M6	<b>Tong Qu</b>	MASc.	“Dynamic Electronic Signature Verification System” (Co-supervision: A. Adler),	2004	Pro Broadband Inc. (China)
M5	<b>Housein Houreich</b>	MCS.	Database enhancement for collaborative Client Server architecture	2004	Nortel Network
M4	<b>Zheng (Magie) Yin</b>	M.Sc.	“Study of metadata for advanced multimedia learning objects”	2004	Berkley Neutraceuticals Inc. LA, USA
M3	<b>Zhengfang (Kelvin) Xu</b>	M.Sc.	“A Web Services Oriented Framework for Facilitating Dynamic e-Learning Systems”	2003	(Toronto)
M2	<b>Dongsheng (Doris) Yang</b>	MASc.	“ <i>Effective Tools for Transparent Synchronous Collaborative Environments</i> ” (Co-supervision: N.D. Georganas)	2002	School of Software Eng. Tongji University (China)
M1	<b>Sun Xiaoyan</b>	MCS.	“ <i>A Framework for a University E-Learning portal</i> ”	2002	(China)

### **C) Undergraduate Student Supervisions Honors Projects**

#### **Fall 2002**

1.	Dufour	Andre	4TH YEAR HONOURS PROJECT
2.	Arcand	Elisabeth	4TH YEAR HONOURS PROJECT
3.	Ke	Jianming	4TH YEAR HONOURS PROJECT
4.	Li	Zhang	4TH YEAR HONOURS PROJECT
5.	LaPanse	Yves-Etienne	4TH YEAR HONOURS PROJECT
6.	Glin	Thierry	Summer Student

#### **Winter 2003**

7.	Mao	Umhani	4TH YEAR HONOURS PROJECT
8.	laila	rissafi	4TH YEAR HONOURS PROJECT
9.	Mano	Kulasingam	4TH YEAR HONOURS PROJECT
10.	David	George	4TH YEAR HONOURS PROJECT
11.	ying	zhao	4TH YEAR HONOURS PROJECT
12.	Toan-The	Nguyen	4TH YEAR HONOURS PROJECT
13.	Trevor	Smith	4TH YEAR HONOURS PROJECT
14.	Parisa	Zabihi	4TH YEAR HONOURS PROJECT

#### **Fall 2003**

15.	Chris	Lenko	4TH YEAR HONOURS PROJECT
16.	Jeff	Cushen	4TH YEAR HONOURS PROJECT
17.	Carolyn	Chow	4TH YEAR HONOURS PROJECT
18.	Donald	Chow	4TH YEAR HONOURS PROJECT
19.	Jennifer	CHow	4TH YEAR HONOURS PROJECT
20.	Deyang	Liu	4TH YEAR HONOURS PROJECT
21.	Hu	Jun	4TH YEAR HONOURS PROJECT
22.	Cao	Fang	4TH YEAR HONOURS PROJECT
23.	Juqqa	Ahmad	4TH YEAR HONOURS PROJECT

#### **Winter 2004**

24.	Michael	Delage	4TH YEAR HONOURS PROJECT
25.	Nadia	Farehi	4TH YEAR HONOURS PROJECT
26.	Luula	Muuse	4TH YEAR HONOURS PROJECT

#### **Fall 2004**

27.	Vanessa	Ferreira	4TH YEAR HONOURS PROJECT
28.	Jacek	Pakulski	4TH YEAR HONOURS PROJECT
29.	Alan	Yang	4TH YEAR HONOURS PROJECT
30.	Dazhen	Wang	4TH YEAR HONOURS PROJECT
31.	Dayong	Li	4TH YEAR HONOURS PROJECT

#### **Winter 2005**

32.	Jeff	Gordon	4TH YEAR HONOURS PROJECT
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33. Matthew	Pelow	4TH YEAR HONOURS PROJECT
34. Alexandra	Berlo	4TH YEAR HONOURS PROJECT
<b>Fall 2005</b>		
35. Rabih	Dagher	4TH YEAR HONOURS PROJECT
36. Bassem	Barake	4TH YEAR HONOURS PROJECT
37. Azmeena	Azher	4TH YEAR HONOURS PROJECT
38. Shaza	Mroue	4TH YEAR HONOURS PROJECT
39. Nhut Minh	Tang	4TH YEAR HONOURS PROJECT
40. Salinah	Janmohamed	4TH YEAR HONOURS PROJECT
41. Christian	Roch	4TH YEAR HONOURS PROJECT
42. Mike	Olteanu	4TH YEAR HONOURS PROJECT
43. Theofanis	Hatzidakis	4TH YEAR HONOURS PROJECT
<b>Winter 2006</b>		
44. David	Pascoe-Deslauriers	4TH YEAR HONOURS PROJECT
45. Vinay	Kumar	4TH YEAR HONOURS PROJECT
46. Emilie	Noel	4TH YEAR HONOURS PROJECT
47. Reem	Matar	4TH YEAR HONOURS PROJECT
<b>Fall 2006</b>		
48. Joseph	Rafoul.	4TH YEAR HONOURS PROJECT
<b>Winter 2006 &amp; Fall 2006</b>		
49. Bogdan	Solomon	4TH YEAR project
50. Cristian	Gadea	4TH YEAR project
51. John	Hall	4TH YEAR project
52. Stephen	Dickey	4TH YEAR project
53. Zhenhua	Yang	4TH YEAR project
<b>Winter 2007</b>		
54. Xiaorui (Richard)	Wang	4TH YEAR project
55. Ahmed	Noman	4TH YEAR project
56. Laith	Abbadi	4TH YEAR project
57. Amin	El-Assaad	4TH YEAR project
58. Junsik (Brian)	Hwang	4TH YEAR project
59. Dima	Abbadi	4TH YEAR project
<b>Winter 2007</b>		
60. Mathew	Winstone	4TH YEAR HONOURS PROJECT
61. Céleste	Grodesky	4TH YEAR HONOURS PROJECT
<b>Fall 2008</b>		
62. Hassan	Dayfallah	4TH YEAR project
63. Hassan	Najibeddine	4TH YEAR project
<b>Winter 2008</b>		
64. Joseph	Youssef	4TH YEAR HONOURS PROJECT
65. Aldo	Zarza	4TH YEAR HONOURS PROJECT
<b>Fall 2008</b>		
66. Adrian	McAuley	4TH YEAR HONOURS PROJECT

f) GRADUATE COURSES at University of Ottawa:

I taught several courses related to multimedia & communications networks, virtual reality at the graduate and undergraduate level. I also taught several courses in Computer Science and Software Engineering at the undergraduate level. I wrote a book on Object-Oriented Programming with Java (Open Java 1999). I received several congratulations letters from the Dean of the Faculty of Engineering @ uOttawa because of my teaching and was the top Faculty of Engineering teacher in Fall 2003 (see article by the University of Ottawa news paper “La Rotonde”, April 2004).

**RESEARCH FUNDING: Career total: \$ 14,789,775**

<u>Names</u>	<u>Funding Agency-Title of Project</u>	<u>Amount</u>	<u>Year</u>
A. Bokerche and A. El Saddik	NSERC (Strategic.) SerVANET: Service Discovery Protocols for Next Generation Vehicular Ad-hoc Networks	\$ 417,500 (50%)	2009 – 2012
N.D. Georganas, A. El Saddik et al	ORF-RE/Industry (Contract) MESSAGE: MESSAGES: Mobile Executable Software & Systems for Augmented Graphical Environments	\$3,000,000 (10%)	2009 – 2013
S. Shirmohammadi, A. El Saddik, and N.D. Georganas	NSERC (Strategic) MASSIVE GAIN: Massively Multiuser Virtual Environments and Games with Haptic Interaction	\$ 466,500 (33%)	2009 – 2012
S. Shirmohammadi, A. El Saddik, and M. Hossaini	NSERC (CRD) CAVIAR: Context-Aware Videography and Adaptation Research for High Definition Videoconferencing	\$ 120,000 (33%)	2009 – 2011
A. El Saddik	NSERC (Oper.) Advances in Collaborative Haptic Audio Visual Environments	\$ 130,500	2007 – 2012
A. El Saddik	URC Ambient Interactive Media & Applications	\$ 125,000	2007 – 2011
A. Boukerche & a. El Saddik	NSERC (Strategic): LiveSAFETY: Localization in Vehicle Ad Hoc Networks for Safety Applications	\$100,000 (30%)	2008 – 2010
A. El Saddik	PREA (Award) Personalized Multimedia Content in Distributed Collaborative Environments	\$ 150,000	2004 – 2009
E.M.Petriu, N.D. Georganas, A. El Saddik et al	ORF-RE/Industry (Contract) MUSES_SECRET: Multimodal Surveillance System for Security Related Research	\$2,000,000 (10%)	2008 – 2012
A. El Saddik et al.	NSERC (RTI.) Infrastructure for collaborative haptic-visual environments	\$ 106,600	2008 – 2009
A. El Saddik and N.D. Georganas,	HRSDC: Bridging the Gap: Integration of Skilled Immigrants into the Canadian Workplace	\$ 179,080	2008 – 2009
S. Shirmohammadi, A. El Saddik, and N.D. Georganas	NSERC (Strategic) HARVEST: A Framework for Haptic, interactive Virtual Environments for Tele-presence	\$ 466,500 (33%)	2007 – 2009
A. El Saddik	CFI Infrastructure Operating Fund	\$ 120,000	2004 – 2008
A. El Saddik	NSERC (Oper.) Peer to Peer Multimedia Collaborative Environments & Web Services	\$ 40,200	2006 – 2008
N.D. Georganas, A. El Saddik, et al.	IBM SUR Shared University Grant (Equip. and Software): Collaborative Tele-presence Computing and Applications	\$3,381,899	2007 – 2008
A. El Saddik	ORDCF: Secure Service Orientated Collaborative E-Commerce Environments	\$ 43,440	2007 – 2008
A. El Saddik, A. Miri, et al.	CITO, Bell, CIBC, RBC, BMO, ORCDF: Technical Tools to Address the ID Theft Problem	\$ 348,000 (30%)	2007 – 2008
A. Nayak,	Cistel, ORNEC: Novel Schemes for Detecting Attack Packets during DDoS Attack	\$ 158,308 (50%)	2007 – 2008
A. El Saddik	ORDCF: Secure Service Orientated Collaborative E-Commerce Environments	\$ 43,440	2006 – 2007
Boukerche, A. El Saddik and N.D. Georganas	Canarie (Contract) FedGrid	\$242,642 (33%)	2006 – 2007
H. Mouftah and A. El Saddik et al.	Canarie (Contract) User Controlled Lightpath Provisioning 2 <sup>nd</sup> Generation Optical Networks	\$256,000 (20%)	2006 – 2007
R. Liscano, A. El Saddik	CITO (Contract) Feasibility of Semantic and Web Service protocols to Sensor Networks	\$ 169,830 (50%)	2005 – 2007
J. Bourdeau, A. El Saddik et Al.	Canarie (Contract) BEST (Banc d'Essai de Services de liaisons optiques pour un environnement de Téléformation doctorale)	\$ 499,724 (10%)	2005 – 2007
G. Comeau, A. El Saddik, S. Shirmohammadi, W. Lee	UoO (Interdisciplinary) "Virtual reality based piano pedagogy"	\$ 19,620	2005 – 2006
A. El Saddik, Ed Lemaire, S. Shirmohammadi	UoO (Interdisciplinary) Haptic Applications for Physical Rehabilitation	\$ 19,867	2005 – 2006

<b>A. El Saddik</b>	<b>CFI/OIT Software Engineering and Secure Collaborative Multimedia Communications Research Facility</b>	\$ 990,000	2003 – 2007
A. Nayak, <b>A. El Saddik</b>	<b>ORNEC (Contract) Preventing Denial of Service Attacks in Distributed E-commerce Environments</b>	\$ 35,000 (50%)	2004 – 2005
<b>A. El Saddik</b> et al.	<b>NSERC (Equip.) "Infrastructure for Secure Distributed Information Systems"</b>	\$ 20,096	2004 – 2005
R. Laganier, E. Dubois, <b>A. El Saddik</b> , A. Adler, J. Zhao	<b>NSERC (Equip.) "An infrastructure of research for content-based video processing and analysis for visual communication"</b>	\$ 41,073 (20%)	2004 – 2005
R. Probert, <b>A. El Saddik</b> H. Ural, and A. Williams	<b>CITO (Contract) "Bettering the Best"</b>	\$ 224,616 (25%)	2004 – 2005
N.D. Georganas, E. M. Petriu, E., <b>A. El Saddik</b> Dubois, and V. Groza	<b>CITO (Contract) HAVENLI: Haptic Virtual Env. With Natural Laws Object Modeling</b>	\$ 120,000 (25%)	2003 – 2005
<b>A. El Saddik</b>	<b>NCIT (Contract) Enhanced Personalized Collaborative Information Systems</b>	\$ 50,000	2004 – 2005
N.D. Georganas, <b>A. El Saddik</b> , et al.	<b>LORNET - NSERC (Oper.) Creation, Search and Delivery of Advanced Multimedia Learning Objects</b>	\$1,500,000 (20%)	2003 – 2008
<b>A. El Saddik</b>	<b>NCIT (Equip.) Enhanced Personalized Collaborative Information Systems</b>	\$ 51,250	2003 – 2004
<b>A. El Saddik</b>	<b>NCIT (Contract) Enhanced Personalized Collaborative Information Systems</b>	\$ 25,000	2003
<b>A. El Saddik</b>	<b>UoO, Faculty of Eng. (Grant) "Digital Right Management"</b>	\$ 12,000	2003 – 2004
<b>A. El Saddik</b>	<b>UoO, Teaching/Learning Subcommittee (Grant) "XML-based Navigation tool"</b>	\$ 4,100	2003 – 2004
<b>A. El Saddik</b>	<b>NSERC (Oper.) Internet and Multimedia Tele-collaborative Systems</b>	\$ 80,000	2002 – 2006
<b>A. El Saddik</b>	<b>UoO, Start Up funding (SITE + Faculty of Eng.)</b>	\$ 15,000	2002 – 2003
<b>A. El Saddik</b>	<b>UoO, University Fund</b>	\$ 6,000	2002 – 2003

j) PUBLICATIONS:

1) Life-time summary (count) according to the following categories:

- Books authored.....	3
- Books and/or proceedings edited.....	5
- Chapters in books .....	12
- Papers in refereed journals .....	57
- Papers in refereed conference proceedings.....	196
- Patent .....	2

**Total 273**

Details for past seven (7) years same categories as above:

Books authored:

B.1. Haptics Technologies: Bringing Touch to Multimedia, Springer-Verlag (2010), 400 pp.

B.2. Interactive Multimedia Learning, ISBN: 3-540-41930-6, Springer-Verlag (2001), 200 pp.

B.3. Open Java: Von den Grundlagen zu den Anwendungen, (Open Java: From Basics to Buildings Applications), Springer-Verlag, ISBN: 3540654461 (1999), 790 pp.

#### Books/Proceedings edited:

- B.4. "Proceedings of 12<sup>th</sup> IEEE International Symposium on Distributed Simulation and Real-Time Applications", Eds. David Roberts , **Abdulmotaleb El Saddik** and Alois Ferscha, ISBN 978-0-7695-3425-1, 2008
- B.5. "Proceedings of 11<sup>th</sup> IEEE International Symposium on Distributed Simulation and Real-Time Applications", Eds. David J. Roberts , Georgios K. Theodoropoulos and **Abdulmotaleb El Saddik**, ISBN 0-7695-3011-7, 2007
- B.6. "Topic 16 Distributed Systems and Distributed Multimedia", Lecture Notes in Computer Science, Springer-Verlag, Eds. Fernando Pereira, **Abdulmotaleb El Saddik**, Roy Friedman, and László Böszörményi, ISSN: 0302-9743, Volume 2790/2004
- B.7. "IEEE International Workshop on Haptic Virtual Environments and their Applications (HAVE2002)", ed. **A. El Saddik**, and E. Petriu, ISBN: 0-7803-7635-8, (2002), 120 pp.
- B.8. "Advances in software engineering and multimedia applications", Eds. George E. Lasker, Sheng-Tun Li, and **Abdulmotaleb El Saddik**, Windsor, Ontario: International Institute for advanced Studies in Systems Research and Cybernetics, ISBN 0-921836-91-0, (2000), 150 pp.

#### Chapters in books:

- Ch.1. Pradeep K. Atrey, Mohan Kankanhalli, and **Abdulmotaleb El Saddik**, "Digial Video Authentication", In Handbook of Research on Secure Multimedia Distribution, IGI publisher, 2008
- Ch.2. Khalil El-Khatib, Gregor von Bochman and **Abdulmotaleb El Saddik**, "On the Use of Web Services in Content Adaptation", To appear in the book "Service and Business Computing Solutions with XML: Applications for Quality Management and Best Processes", IGI Global, Hershey, PA, USA.
- Ch.3. Md. Abdur Rahman, **Abdulmotaleb El Saddik**, and Wail Gueaieb. Wireless Sensor Network Transport Layer: State of the Art. In Subhas Mukhopadhyay and Ray Huang, editors, Sensors: Advancement In Modeling, Design Issues, Fabrication And Practical Applications, LECTURE NOTES IN ELECTRICAL ENGINEERING. Springer-Verlag, vol. 21, pp. 221-245, April 2008
- Ch.4. M. Anwar Hossain and **Abdulmotaleb El Saddik**, "Context-aware Information Retrieval for Nomadic Users" In Encyclopedia of Wireless and Mobile Communication, CRC Press, 2007.
- Ch.5. Andrew Rocznik and **Abdulmotaleb El Saddik** "Mobile P2p Data Retrieval And Caching" In Encyclopedia of Wireless and Mobile Communication., Borko, CRC Press, 2007.
- Ch.6. **Abdulmotaleb El Saddik** and Md. Shamim Hossain, "Multimedia Streaming For Wireless Communication", In Encyclopedia of Wireless and Mobile Communication, CRC Press, 2007.
- Ch.7. Md. Shamim Hossain and **Abdulmotaleb El Saddik**, "Multimedia Content Repurposing in Wireless Environments", In Encyclopedia of Wireless and Mobile Communication, CRC Press, 2007.
- Ch.8. **Abdulmotaleb El Saddik** and M. Anwar Hossain, "LORNAV: Virtual Reality Tool for Navigation of Distributed Learning Objects Repositories" in Samuel Pierre (ed.) E-Learning Networked Environments and Architectures: A Knowledge Processing Perspective, Springer Book Series, ISBN: 1-84628-351-5, 2006
- Ch.9. **Abdulmotaleb El Saddik** and Shamim Hossain, "Multimedia Content Repurposing" in Encyclopedia of Multimedia, Edited by Borko Furht, Springer Book Series, ISBN: 0-387-24395-X, 2006
- Ch.10. **Abdulmotaleb El Saddik** "IP-Telephony" in Encyclopedia of Multimedia, Edited by Borko Furht, Springer Book Series, ISBN: 0-387-24395-X, 2006
- Ch.11. **Abdulmotaleb El Saddik** "Quality of Service in Multimedia Networks" in Encyclopedia of Multimedia a, Edited by Borko Furht, Springer Book Series, ISBN: 0-387-24395-X, 2006
- Ch.12. Jiying Zhao and **Abdulmotaleb El Saddik** "Multimedia Authentication" in Encyclopedia of Multimedia, Edited by Borko Furht, Springer Book Series, ISBN: 0-387-24395-X, 2006

#### Patents:

- P.1. A Patent application on "Shoulder Surfing Resistant Graphical Password with Haptics", submitted US patent office. Application number: 11690510, filed on March 23, 2007.
- P.2. A Patent application on "A Synchronous Interpersonal Haptic Communication System", submitted US patent office. Application number: 12/481,274 - A09101US, filed on June 9, 2009.

Papers in refereed Journals:

- J57** Heung-Nam Kim, Andrew Roczniak, Pierre Lévy, and Abdulmotaleb El Saddik, “Social media filtering based on collaborative tagging in semantic space”, Springer Multimedia Tools and Applications, (accepted)
- J56** Atif Alamri Jongeun Cha, **Abdulmotaleb El Saddik**, and Shervin Shirmohammadi, “AR-REHAB: an Augmented Reality Framework for Post-Stroke Patients Rehabilitation”, IEEE Transactions on Instrumentation and Measurements (accepted)
- J55** Jongeun Cha, Ahmad Barghout, Julius Kammerl, Eckehard Steinbach, and **Abdulmotaleb El Saddik**, “Improving Spatial Perception in Telepresence and Teleaction Systems by Displaying Distance Information through Visual and Vibrotactile Feedback”, Presence: Teleoperators and Virtual Environments (accepted)
- J54** Md. Abdur Rahman, Wail Gueaieb and **Abdulmotaleb El Saddik**, “Augmenting Context-Awareness by Combining Body Sensor Networks and Social Networks” IEEE Transactions on Instrumentation and Measurements, (accepted)
- J53** P.K. Atrey, M.A. Hossain, **A. El Saddik** and M.S. Kankanhalli, “Multimodal Fusion for Multimedia Analysis: A Survey”, Springer Multimedia Systems Journal, (accepted).
- J52** Mohamad Eid, Jongeun Cha, **Abdulmotaleb El Saddik**, “Admux: An Adaptive Multiplexer for Haptic Audio Visual Data Communication”, IEEE Transactions on Instrumentation and Measurements, (accepted)
- J51** Md. Abdur Rahman, Wail Gueaieb and **Abdulmotaleb El Saddik**, “Building Dynamic Social Network From Sensory Data Feed” IEEE Transactions on Instrumentation and Measurements, vol. 59, no. 5, pp. 1327-1341, May 2010.
- J50** M. Anwar Hossain, , Pradeep Atrey, and **Abdulmotaleb El Saddik**, “Modeling and Assessing Quality of Information in Multisensor Multimedia Monitoring Systems” ACM Transactions on Multimedia Computing Communications and Applications (accepted)
- J49** Alain Mouttham, Liam Peyton, Ben Eze, and **Abdulmotaleb El Saddik** “Event-driven Data Integration for Personal Health Monitoring”, Journal of Emerging Technologies in Web Intelligence, Vol. 1(2), 110-118, 2009
- J48** Jorge Parra, M. Anwar Hossain, Aitor Uribarren, Eduardo Jacob and **Abdulmotaleb El Saddik**, “Flexible Smart Home Architecture using Device Profile for Web Services: a Peer-to-Peer Approach”, International Journal of Smart Home, Vol. 3(2), pp: 39 – 56, 2009
- J47** M. Anwar Hossain, Jorge Parra, Pradeep K. Atrey, and **Abdulmotaleb El Saddik**, “A Framework for Human-centered Provisioning of Ambient Media Services”, Springer Journal of Multimedia Tools and Applications, Vol. 44(3), pp: 407-431, 2009
- J46** **Abdulmotaleb El Saddik** and Deyang Liu, “QoS Based Selection Algorithms for Composite Distributed Web Services” Journal of Interconnections and Networks (JOIN) Vol.10(4), pp: 421-434, 2009
- J45** M. Shamim Hossain, and **Abdulmotaleb El Saddik**, “QoS Measurement for Multimedia Trascoding Service Selection”, IEEE Transactions on Instrumentation and Measurement, Vol. 59, No. 6, pp. 1498-1506, June 2010
- J44** Jongeun Cha, Mohamad Eid, **Abdulmotaleb El Saddik**, “Touchable 3D Video System” ACM Transactions on Multimedia Computing Communications and Applications Vol. 5(4) 25 pages, 2009.
- J43** Md. Anisur Rahman, Mehedi Masud, Iluju Kiringa, and **Abdulmotaleb El Saddik** “A Peer Data Sharing System Combining Schema and Data Level Mappings”, International Journal of Semantic Computing (IJSC), Vol. 3, No. 1 (2009) pp:105–129
- J42** Andrew Roczniak and **Abdulmotaleb El Saddik**, "Improving Robustness of P2P Applications in Mobile Environments" Springer Peer-to-Peer Networking and Applications, Vol 2(3), pp: 217-229, 2009
- J41** M. Anwar Hossain, Pradeep K. Atrey, **Abdulmotaleb El Saddik**, “Learning Multi-sensor Confidence using a Reward and Punishment Mechanism”, IEEE Transactions on Instrumentation and Measurements Vol. 58(5) pp: 1525–1534, May 2009
- J40** Ahmad Barghout, Atif Alamri, Mohamad Eid, **Abdulmotaleb El Saddik**, “Haptic Rehabilitation Exercises Performance Evaluation Using Automated Inference Systems”, Int. Journal of Advanced Media and Communication, Vol. 3(2), pp: 197 – 214, 2009.
- J39** M. Shamim Hossain, Atif Alamri and **Abdulmotaleb El Saddik**, “A Biologically-Inspired framework for Multimedia Service Management in Ubiquitous Environment”, Wiley: Concurrency and Computation: Practice & Experience, Vol. 21, No. 11, PP. 1450-1466, 2009.

- J38** Vicky Laurens, Alexandre Miege, **Abdulmotaleb El Saddik** and Pulak Dhar, “DDoSniiffer: Detecting DDOS attack at the source agents”, International Journal of Advanced Media and Communication, v3 (3), pp:290-311, 2009
- J37** M. Shamim Hossain and **Abdulmotaleb El Saddik** " A biologically inspired multimedia content repurposing system in heterogeneous environments" ACM/Springer Multimedia Systems Journal, Volume 14, Number 3 / August, 2008, pp. 135-144.
- J36** M. Anwar Hossain, Pradeep K. Atrey and **Abdulmotaleb El Saddik**, “Gain-based Selection of Ambient Media Services in Pervasive Environments” Springer Mobile Networks and Applications MONET, Vol. 13(6), pp: 599—613, 2008
- J35** Pradeep K. Atrey and **Abdulmotaleb El Saddik**, “Confidence Evolution in Multimedia Systems” IEEE Transactions on Multimedia, Vol. 10, Issue 7, pp 1288-1298, November 2008
- J34** Fawaz A Alsulaiman and **Abdulmotaleb El Saddik**, “Three Dimensional Password for More Secure Authentication”, IEEE Transactions on Instrumentation and Measurements Vol. 57 (9), pp.: 1929-1838, 2008
- J33** Razib Iqbal, Shervin Shirmohammadi, **Abdulmotaleb El Saddik**, and Jiyang Zhao, “Compressed Domain Video Processing for Adaptation, Encryption, and Authentication”, IEEE Multimedia, Vol. 15(2), pp: 38-50, 2008
- J32** Atif Alamri, Mohammad Eid, Rosa Iglesias, **Abdulmotaleb El Saddik**, and Shervin Shirmohammadi, “Haptic Virtual Rehabilitation Exercises for post-stroke diagnosis”, IEEE Transactions on Instrumentation and Measurements Vol. 57 (9), pp.: 1876-1884, 2008
- J31** M. Shamim Hossain, and **Abdulmotaleb El Saddik**, "Scalability Measurement of proxy-based Multimedia Content Repurposing System”, Int. Journal of Advanced Media and Communication, Vol. 2, No. 3, pp: 267-287, 2008.
- J30** Mauricio Orozco, Rosa Iglesias and **Abdulmotaleb El Saddik**, “AdHapticA: Adaptive Haptic Application Framework”, IEEE Transactions on Instrumentation and Measurement Vol. 57 (9), pp.: 1840-1851, 2008
- J29** Pradeep K. Atrey, M. Anwar Hossain and **Abdulmotaleb El Saddik**, “Association-based Dynamic Computation of Reputation in Web Services”, International Journal of Web and Grid Services, Vol 4 (2), pp 169-188, 2008
- J28** **Abdulmotaleb El Saddik**, ASM Mahfujur Rahman, and M. Anwar Hossain, “Suitability of Searching and Representing Multimedia Learning Resources in a 3D Virtual Gaming Environment” IEEE Transactions on Instrumentation and Measurement, Vol. 57 (9), pp.: 1830-1839, 2008
- J27** Yao Chen, Shantanu Das, Pulak Dhar, **Abdulmotaleb El Saddik**, and Amiya Nayak “Detecting and Preventing IP-spoofed Distributed DoS Attacks”, International Journal of Network Security, Vol (7) no. (1), July 2008
- J26** Mauricio Orozco, Matthew Graydon, Shervin Shirmohammadi, and **Abdulmotaleb El Saddik**, “Experiments in Haptic-Based Authentication of Humans”, Springer Journal of Multimedia Tools and Applications, vol. 37, no. 1, March 2008
- J25** Mohamad Eid, Atif Alamri and **Abdulmotaleb El Saddik**, “A Reference Model for Dynamic Web Service Composition Systems”, International Journal of Web and Grid Services, Vol 4 (2), pp 149 – 168, 2008
- J24** **A. El Saddik**, Md. Abdur Rahman, Souhail Abdala and B.Solomon "PECOLE: P2P Multimedia Collaborative Environment”, Springer Journal of Multimedia Tools and Applications (DOI: 10.1007/s11042-007-0165-0), August 2007
- J23** Qing Chen, ASM Mahfujur Rahman, Xiaojun Shen, **Abdulmotaleb El Saddik** and Nicolas D. Georganas, “Navigating a 3D Virtual Environment of Learning Objects by Hand Gestures” International Journal of Advanced Media and Communication, v1 (4), 2007
- J22** Md. Abdur Rahman, **A. El Saddik**, “*Modified Syntactic Method to Recognize Bengali Handwritten Characters*”, IEEE Transactions on Instrumentation and Measurement V56 (6) 12 pages, 2007
- J21** **Abdulmotaleb El Saddik** “The Potential of Haptics Technologies” IEEE Instrumentation & Measurement, v10(1), pp: 10-17, February, 2007
- J20** Mohamad Eid, Mauricio Orozco and **Abdulmotaleb El Saddik**, “A Guided Tour in Haptic Audio Visual Environment and Applications”, Int. J. of Advanced Media and Communication, v1 (3), pp: 265 – 297, 2007

- J19** Dong Zheng, Yan Liu, Jiyong Zhao, and **Abdulmotaleb El Saddik** “A Survey of RST Invariant Image Watermarking Algorithms” ACM Computing Surveys, Vol. 39 (2), article 5, 91 pages, 2007, DOI = 10.1145/1242471.1242473, <http://doi.acm.org/10.1145/1242471.1242473>
- J18** **Abdulmotaleb El Saddik**, Mauricio Orozco, Yednek Asfaw, Shervin Shirmohammadi and Andy Adler, “A Novel Biometric System for Identification and Verification of Haptic Users”, IEEE Transactions on Instrumentation and Measurement, Vol.56, No. 3 (2007), pp: 895 – 906.
- J17** Md. Abdur Rahman, Suruz Miah, Wail Gueaieb and **Abdulmotaleb El Saddik**, “SENORA: A P2P Service Oriented Framework for Collaborative Multi-robot Sensor Network” IEEE Sensors vol.7 (5), pp: 658-666. 2007
- J16** Liam Peyton, Jun Hu, Hao Liu, Mansour Al-Saleh, and **Abdulmotaleb El Saddik** “A Collaborative Approval Process for Accessing Sensitive Data ”, International Journal of Computer Applications in Technology Vol. 29, No.1 pp. 45 – 53, 2007
- J15** Andrew Rocznik and **Abdulmotaleb El Saddik**, Pierre Levy “INCA: Qualitative Reference Framework for Incentive Mechanisms in P2P Networks” in International Journal of Computer Applications in Technology, V:29(1), pp 71 – 80, 2007
- J14** **Abdulmotaleb El Saddik**, D. Yang, N. D. Georganas, “Tools for Transparent Synchronous Collaborative Environments”, Springer Journal of Multimedia Tools and Applications v.33 (2), pp 217-240, 2007
- J13** **Abdulmotaleb El Saddik** “Performance Measurement of Web Services-based Applications”, IEEE Transactions on Instrumentation and Measurement Vol.55, No. 5 (2006), pp: 1599- 1605
- J12** Atif Alamri, Mohamad Eid, and **Abdulmotaleb El Saddik**, “Classification of the State-of-the-Art Dynamic Web Services Composition Techniques”, International Journal of Web and Grid Services, Vol. 2, No. 2 (2006), pp.148 – 166
- J11** Vicky Laurens, **Abdulmotaleb El Saddik** and Amiya Nayak, “Requirements for Client Puzzles to defeat the Denial of Service and the Distributed Denial of Service attacks” International A Journal of Information Technology, Vol. 3, No. 4, (2006) pp: 326-333
- J10** Ali Abbas, **Abdulmotaleb El Saddik**, and Ali Miri, “A State of the Art Security Taxonomy of Internet Security: Threats and Countermeasures”, Int’l Trans. Computer Science and Engineering, pp.27-36, Vol.19, No.1, 2005
- J9** J. C. de Oliveira, M. Hosseini, S. Shirmohammadi, F. Malric, S. Nourian, **Abdulmotaleb El Saddik** & N. D. Georganas, “Java Multimedia Telecollaboration”, IEEE Multimedia, pp: 18-29, Vol.10, No. 3, July-Sept 2003.
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**JASMINE:** Java Application Sharing in Multiuser INteractive Environmnets with S. Shirmohammadi, N.D. Georganas and R. Steinmetz.
- m) Media and Press
- ◆ Press Release University of Ottawa, January 22, 2010
  - ◆ Prof. El Saddik is featured in the Higher Colleges of Technology's Abu Dhabi Women's College news under the title: "Computer Scientist Energizes ADWC Students", March 2009
  - ◆ Prof. El Saddik interview in the Spanish newspaper "Diario Vasco", June 10, 2008
  - ◆ Prof. El Saddik' research on Haptic is featured in an article published by SAP, Dec. 2007
  - ◆ The German newspaper "Darmstaedter Echo" interviewed prof. El Saddik about his work and vision on Haptics, Sept. 6, 2007
  - ◆ Prof. El Saddik is featured in many German newspapers after receiving the Humboldt Foundation Award, Sept. 2007
  - ◆ Prof. El Saddik is featured in an article in the Technical University of Darmatdt newspaper, May 2007
  - ◆ The Ottawa Citizen newspaper showcases University of Ottawa new "Graduate Certificate in Modelling and Animation for Computer Games Technology". Prof. El Saddik is the mastermind behind this certificate, March 08, 2007
  - ◆ Prof. El Saddik is best teacher in the Faculty of Engineering with evaluation of 4.89/5 (University of Ottawa internal newspaper Larotonde April 5, 2004)