

Saeid Nooshabadi

Current Appointment

Organization Professor, Departments of Electrical & Computer Engineering and Computer Science, Michigan Technological University
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Professional Preparation

| Dates | Colleges and Universities | Specialized Field | Degree |
|-------|--|-------------------------------|--------|
| 1982 | Andhra Uni., Vishakapantnam, India | Physics | BSc |
| 1984 | Andhra Uni., Vishakapantnam India | Nuclear Instrumentation | MSc |
| 1987 | Indian Institute of Technology Delhi (IITD) | Integrated Circuits, VLSI DSP | MTech |
| 1992 | Indian Institute of Technology Delhi (IITD) | Integrated Circuits, VLSI DSP | PhD |

Past Experience

| Dates | Position | Institution and Address |
|-------------|-----------------|--|
| 2010 - | Prof. | Michigan Tech, Houghtn, MI |
| 2006 - 2007 | Asso/Prof. | University of New South Wales, Australia |
| 2000 - 2006 | Senior Lecturer | University of New South Wales, Australia |
| 1998 - 2000 | Senior Lecturer | University of Tasmania, Australia |
| 1996 - 1998 | Senior Lecturer | Charles Darwin University, Australia |
| 1993 - 1996 | Lecturer | Charles Darwin University, Australia |

Products

Five Publications Related to the Proposed Research

1. T. Mladenov, **S. Nooshabadi**, and K. Kim, "Implementation and Evaluation of Raptor Codes on Embedded Systems", Accepted for IEEE Transactions on Computers, vol. 60, no. x, pp. xxx, xxx 2011. (Accepted Aug. 2010)
2. S. Zezza, **S. Nooshabadi**, M. Martina, and G. Masera, "Efficient Implementation Techniques for ML Based Error Correction for JPEG2000", IEEE Trans. on Circuits and Systems for Video Technology, vol. 19, no. 4, pp 591-596, April 2009.
3. M. Dyer, **S. Nooshabadi**, D. Taubman, "Design and Analysis of System on a Chip Encoder for JPEG2000", IEEE Trans. on Circuits and Systems for Video Technology, vol. 19, no. 2, pp 215-225, Feb 2009.
4. A. Gupta, **S. Nooshabadi**, and D. Taubman, "Efficient Memory Organization and Data Transfer Techniques for Integration of DWT and Block Coder of JPEG2000 Encoder", IEEE Tran. on Circuits and Systems for Video Technology, vol. 18, no. 5, pp. 687-693, May 2008.
5. A. Gupta, **S. Nooshabadi**, D. Taubman, and M. Dyer "Realizing Low-Cost High-Throughput General-Purpose Block Encoder for JPEG2000". IEEE Transaction on Circuits and Systems for Video Technology. vol. 16, no. 7, pp. 843 - 858, July 2006.

Other Selected Publications

6. T Mladenov, **S. Nooshabadi**, and K. Kim, "MBMS Raptor Codes Design Trade-offs for IPTV", IEEE Transactions on Consumer Electronics, vol. 56, no. 3, pp. 1264-1269,

August 2010.

7. A. Gupta, **S. Nooshabadi**, and D. Taubman, "Efficient Memory Organization and Data Transfer Techniques for Integration of DWT and Block Coder of JPEG2000 Encoder", IEEE Tran. on Circuits and Systems for Video Technology, vol. 18, no. 5, pp. 687-693, May 2008.
8. A. Gupta, **S. Nooshabadi**, and D. Taubman, "Novel Distortion Estimation Technique for Hardware Based JPEG2000 Encoder System", IEEE Tran. on Circuits and Systems for Video Technology, vol. 17, no. 6, pp. 918 - 923, July 2007,
9. C. Kim, A. Rassau1, S. Lachowicz, **S. Nooshabadi**, and K. Eshraghian, "3D-SoftChip: A Novel 3D Vertically Integrated Adaptive Computing System.", IFIP Series: VLSI-SOC: From Systems to Silicon, Editors: R. Reis., A. Osserian, and H. Pfleiderer, Springer. 2007, ISBN: 978-0-387-73660-0.
10. J. C. Garcia, **J. S. Nooshabadi** and A. Montiel-Nelson "High Performance CMOS Symmetric Low Swing to High Swing Converter for On-Chip Interconnects", IEEE Mid-West Symposium on Circuits and Systems 2007 (MWSCAS2007), August 2007, Montréal Canada. (**Recipient of Best paper award**).

Synergistic Activities

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| Program Chair for MWSCAS2011, Seoul Korea | 2011 |
| Editor In Chief, Journal of VLSI Design | 2006 - 2010 |
| Invited Talk; "Intelligent BioMed Systems on Chip (iBSoc) Tech, Int. Conf on Systemics, Cybernetics and Informatics (WMSCI), June 2008 | 2008 |
| Editorial Board, A/Editor, IEEE Trans. Education | 2007 - Present |
| Editorial Board, Editor, Int. Jour. of Electronic and Communications | 2007 - Present |

Collaborators

(Three Collaborator: Dr. Fuhrmann D., (Michigan Tech), Dr. Wang Z. (Michigan Tech), Dr. Struthers A., (Michigan Tech)

Graduate Advisor

Dr. G. S Visweswaran, (IIT Delhi)

Graduate Student Advisees (Ph.D. candidates)

Ten PhD: Caoyang Jiang (Multiview Systems); Hwanchol Jang (MIMO Systems), Ge Chen (Reliable computing), Chul Kim (UWB Radio), Todor Mladenov (Raptor Codes), Mark Dyer (JPEG2000), Amit Gupta (JPEG2000), Fariborz Sobhanmanesh (MIMO), Kingsley Oteng-Amoako (Turbo codes), Jose Carlos Garsia (Interconnect Modeling)