



High-Performance Computing Architectures & Networks Laboratory (HPCAN)

<http://ce.sharif.edu/~hpcan>

Hamid Sarbazi-Azad



Director (Since 1381)

Ph.D. in Computing Science,
University of Glasgow, 2002 (1381)

M.Sc. In Computer Eng.
Sharif Univ. of Tech.
1372

B.Sc. In Electrical Eng.
Shahid-Beheshti Univ.
1370

Research Interests:

High-performance computer architectures, Networks-on-chip, Parallel architectures, Interconnection networks, Mobile/wireless sensor networks, Performance evaluation.

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Abbas Nayebi



Ph.D. Candidate (Since 1383)

M.Sc. In Computer Eng.
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1380

B.Sc. In Computer Eng.
Tehran Univ.
1377

Thesis:

Investigation of the effect of mobility on the performance of infrastructure-less wireless networks

Research Interests:

Mobility tolerance, Performance modeling, High performance computing, Sensor and ad hoc networks

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Dara Rahmati



Ph.D. Candidate (Since 1383)

M.Sc. In Computer Eng.
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1380

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1377

Thesis: (Co-advisor: Dr. Hessabi)

Evaluation and modelling of power consumption and performance for networks-on-chips

Research Interests:

Networks-on-Chip (NoC), Systems-on-Chip (SoC), Performance and power issues for NoCs, Real-time networks, Quality-of-service, Analytical models

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Abbas Eslami Kiasari



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1384

B.Sc. In Electrical Eng.
Ferdowsi Univ., Mashhad
1382

Thesis: (Co-advisor: Dr. Hessabi)

An analytical model for performance evaluation of networks-on-chip based on workload

Research Interests:

Performance evaluation, Interconnection networks, Parallel processing, Queueing theory

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Mehdi Modarressi



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1384

B.Sc. In Computer Eng.
Amirkabir Univ. of Tech.
1382

Thesis:

A high-performance and low-power reconfigurable network-on-chip architecture

Research Interests:

High-performance computer architectures, Networks-on-Chip, Reconfigurable systems, Hardware synthesis

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Parisa Khadem Hamedani



Ph.D. Student (Since 1386)

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1383

B.Sc. In Computer Eng.
Sharif Univ. of Tech.
1380

Thesis: (Co-advisor: Dr. Hessabi)

Thermal-aware 3D networks-on-chip design

Research Interests:

Networks-on-chip (NoC), 3D integration, Thermal modelling, Physical design

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Majid Taghdimi



M.Sc. Student (Since 1385)

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1384

Thesis: Performance Comparison of Processor Allocation Algorithms

Research Interests: Network-on-Chip, Computer Architecture, Quantum Computing

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AmirAli Habibi



M.Sc. Student (Since 1386)

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Ferdowsi Univ.
1386

Thesis: Performance Evaluation of Multicast in Network on Chip

Research Interests: Network and System on Chip, Embedded System Design, Power Aware Design

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Mohammad H. Khabbazian



M.Sc. Student (Since 1386)

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Thesis: Performance Evaluation of Resource Scheduling in Computational Grids

Research Interests: Exploring theoretical and practical aspects of computer systems using mathematical models

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Mahdy Zolghadr



M.Sc. Student (Since 1386)

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Thesis: A new information gathering technique for ad-hoc delay-tolerant networks

Research Interests: Wireless Networks, Ad hoc Networks, Graph Theory

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Sadegh Dorri Nagoorani



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Thesis: Grid Resource Discovery using a Peer-to-Peer Approach

Research Interests: Distributed Systems, Grid and Peer-to-Peer Computing, Data and Network Security

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Bahareh Goudarzi



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1386

Thesis: Evaluation of Performance and Power Consumption of Task Migration Schemes in the Mesh NoC

Research Interests: Network-on-Chip, High Performance Computer Architectures

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Ali Shafiei



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Thesis: Thermal and Load Balancing Routing for Irregular Mesh

Research Interests: Network-on-Chip, High Performance Computer Architectures

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Newsha Ardalani



M.Sc. Student (Since 1387)

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1387

Thesis: Spatial Locality Analysis in Cache Memory

Research Interests: Memory Systems, Chip Multiprocessors, Quantum Computing

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Narges Shahidi



M.Sc. Student (Since 1387)

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Thesis: Reconfigurable Segmented Bus for SoCs

Research Interests: Network-on-Chip, Chip multi-processors

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Nassibeh Teimouri



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Thesis: A Hybrid packet-Circuit Switched NoC Architecture

Research Interests: Network-on-Chip, Computer Architecture, Low-power systems

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Sahel Sahhaf



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Thesis: Design and Evaluation of a NoC Supporting Simultaneous Execution of Multiple Applications

Research Interests: Network-on-Chip

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Reyhaneh Jabbarvand



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Thesis: A Novel Fault Tolerance Mechanism in Network-on-Chips

Research Interests: Network-on-Chip, Networks

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Mehdi Asefi Yazdi



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Thesis: Load balancing in Network-on-Chip Architectures

Research Interests: Network-on-Chip, Networks, Computer Architecture

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Hossein Yaghoobi



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Thesis: Using Task-Migration for Reducing On-Chip Communication Delay and Power Consumption in 3D NoCs

Research Interests: Network-on-Chip, WSNs

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