

Curriculum Vitae

Heechul Yun

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8. "Shared Resource Management (Cache, DRAM) Techniques for Multicore RTOS."
Investigator: Heechul Yun (**PI**).
Agency: Electronics and Telecommunications Research Institute (ETRI)
Total budget: \$50,000 (Share: 100%)
Period: June 2016 - January 2017
9. "Research on Shared Resource Management Techniques for Multicore RTOS."
Investigator: Heechul Yun (**PI**).
Agency: Electronics and Telecommunications Research Institute (ETRI)
Total budget: \$37,000 (Share: 100%)
Period: October 2015 - January 2016
10. "CSR: Medium: Multicore Real-Time Virtual Partitions."
Investigators: Lui Sha (PI), Tarek Abdelzaher (Co-PI), Marco Caccamo (Co-PI), Heechul Yun (**Co-PI / Sub-award**)
Agency: National Science Foundation (NSF) / University of Illinois, Urbana-Champaign
Total budget: \$ 1,049,481 (Share: 13.6%)
Period: September 2013 - August 2016

Internal Funding

11. "Operating System Support for Intelligent Cyber-Physical Systems."
Investigator: Heechul Yun (**PI**).
Agency: University of Kansas (General Research Fund)
Total budget: \$7,915 (Share: 100%)
Period: March 2016 – March 2017.
12. "An OS and Hardware Co-Design Approach for Predictable and High-performance Real-Time Computing on Multicore Platforms."
Investigator: Heechul Yun (**PI**).
Agency: University of Kansas (New Faculty General Research Fund)
Total budget: \$8,000 (Share: 100%)
Period: March 2015 - March 2016.

Donation, Gift

13. NVIDIA, Titan XP and Jetson TX2 (Total value: \$1,800), 2018
14. Intel, Xeon E5-2658 v3 CPU x 2 (Total value: \$3,600), 2016
15. Xilinx, UEF-SDSOC-25, (Total value: \$299), 2016
16. Xilinx, UEF-VIVADO-SYSTEM-25, UEF-PR-VIVADO x 2 (Total value: \$3,099), 2015
17. Xilinx, DIGILAB-ZedBoard-410-248P-KIT x 2 (Total value: \$990), 2015
18. NVIDIA, Jetson TK1 x 1 (Total value: \$192), 2014

V. TEACHING RECORD

A. List of Courses Taught

Course Number	Course Title	Sem/Year	# Enrolled	% Taught	Evaluation (*)
EECS 678-51353	Introductn to Operating Systems	Spring 2018	84	100	4.40
EECS 750-65748	Advanced Operating Systems	Spring 2018	12	100	5.00
EECS 678-21167	Introductn to Operating Systems	Fall 2017	33	100	4.74
EECS 678-51497	Introductn to Operating Systems	Spring 2017	65	100	4.30
EECS 753-69494	Embd&Real Time Computer Systms	Spring 2017	23	100	4.73
EECS 678-22615	Introductn to Operating Systems	Fall 2016	38	100	4.33
EECS 678-51554	Introductn to Operating Systems	Spring 2016	80	100	4.28
EECS 750-61872	Advanced Operating Systems	Spring 2016	8	100	5.00
EECS 678-24411	Introductn to Operating Systems	Fall 2015	23	100	4.80
EECS 678-51757	Introductn to Operating Systems	Spring 2015	67	100	4.48
EECS 750-63545	Advanced Operating Systems	Spring 2015	10	100	4.78
EECS 678-29585	Introductn to Operating Systems	Fall 2014	22	100	4.54
EECS 750-65699	Advanced Operating Systems	Spring 2014	14	100	4.36

(*) Course evaluation score: 5 is the maximum score. **Average: 4.6**

B. Graduate and Postgraduate Advising Record

Ph.D. Students

- Farzad Farshchi, Fall 2015 – Present
 - Publications: [3][4][8]
 - Status: Post-Qualifier
- Waqar Ali, PhD, January 2016 – Present
 - Publications: [2][5][24]
 - Status: Post-Qualifier
- Michael Garrett Bechtel, PhD, January 2018 – Present
 - Publications: [1]
 - Status: Pre-qualifier

Master Students

- Prathap Kumar Valsan, Master, Fall 2014 - Summer 2016
 - Publications: [3][4][8][12][14][25][26]
 - Awards: Best Paper Award [8], Richard K. & Wilma S. Moore Thesis Award
 - First employment: Intel
- Prasanth Veerapan Chattir Vivekanandan, Summer 2015 - Spring 2017
 - Publications: [7]
 - First employment: On Semiconductor
- Siddhartha Biswas, Master, Summer 2015 - Fall 2015
 - Publications: [27][5]
- Elise McEllhiney, Master, Fall 2017 - Present
 - Publications: [1]

VI. SERVICE RECORD

A. Professional Service

- IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS)*,
Program Committee. (2018, 2017, 2015)
- IEEE Real-Time Systems Symposium (RTSS)*,
Program Committee. (2017, 2015)
- IEEE Embedded and Real-Time Computing Systems and Applications (RTCSA)*,
Program Committee. (2017, 2016, 2015)
- ACM International Conference on Embedded Software (EMSOFT)*,
Program Committee. (2017)
- IEEE International Symposium on Real-Time Computing (ISORC)*,
Program Committee. (2017)
- Euromicro Conference on Digital System Design (DSD)*,
Program Committee. (2018)
- IEEE Real-Time Systems Symposium, Artifact Evaluation (RTSS-AE)*,
Program Committee. (2017)
- IEEE Real-Time Systems Symposium, Work-in-Progress Track (RTSS-WIP)*,
Program Committee. (2015, 2014, 2013)
- IEEE Real-Time Systems Symposium, RTSS@work (demo session)*
Chair. (2016)
- IEEE Real-Time and Embedded Technology and Applications Symposium, Artifact Evaluation. (RTAS-AE)*, Program Committee. (2018)
- IEEE Real-Time and Embedded Technology and Applications Symposium, Work-In-Progress. (RTAS-WIP)*, Program Committee. (2015)
- ACM Conference on Languages, Compilers, and Tools for Embedded Systems (LCTES)*,
Program Committee. (2014)
- ACM/IEEE CPSWeek Tutorial: Single Core Equivalent (SCE) Architecture Framework for Safety Critical Multicore Systems*, Organizer. (2014)
- Workshop on Operating Systems Platforms for Embedded Real-Time applications (OSPERT)*,
Co-Chair. (2018, 2017)
- Workshop on Operating Systems Platforms for Embedded Real-Time applications (OSPERT)*,
Invited Panelist. (2012)
- Workshop on Security and Dependability of Critical Embedded Real-Time Systems (CERTS)*,
Program Committee. (2016, 2017, 2018)
- Workshop on Certifiable Multicore Avionics Systems (CMAS)*,
Co-Chair. (2015)
- Journal of Systems Architecture (JSA)*
Reviewer. (2018, 2017)
- IEEE Transactions on Computers (TC)*,
Reviewer. (2017, 2016)
- ACM Transactions on Embedded Computing Systems (TECS)*,
Reviewer. (2017, 2015)
- IEEE Transactions on Design Automation of Electronic Systems (TODAES)*,
Reviewer. (2017)
- IEEE Transactions on Parallel and Distributed Systems (TPDS)*
Reviewer. (2016)
- IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD)*
Reviewer. (2016)

B. University of Kansas Service

Department/Unit Service

Engineering Senate Committees (EECS Reps). (August 2017 - Present)
Scholarships committee. Member. (August 2017 - Present)
New faculty hiring committee (CoE Replacement). Member. (2017)
Re-structuring of the MSCS. Member. (2016)
New faculty hiring committee (Bioinformatics and Data Science). (2016, 2015)
CS curriculum committee. Member. (Fall 2014)
New faculty hiring committee (High-performance computing). (2014)

School/College Service

Presentation at Society of Women Engineers (SWE). Speaker. (February 2016)

University Service

Graduate Research Competition Judge. Reviewer. (April 2017)
Undergraduate Research Award (UGRA) competition. Reviewer. (May 2016)