Meiyi Ma

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Research Interest

- Cyber-Physical Systems
- Machine Learning

• Formal Methods

• Internet of Things

• Data Science

• Smart Cities, Health Care

EDUCATION

Ph.D. in Computer Science

May 2021 (expected)

University of Virginia, VA, U.S.

- Advisor: John A. Stankovic & Lu Feng
- Thesis: "Formal Logic-enhanced Deep Learning for Cyber-Physical Systems"

M.S. in Computer Science

March 2015

East China University of Science and Technology, Shanghai, China

- Thesis: "Models of Crystal-Cluster Behaviors: Theoretical Analysis and Applications" [Best Thesis Award]

B.S. in Computer Science and B.E. in Economics

July 2012

East China University of Science and Technology, Shanghai, China

- Thesis: "Dynamic Network Programming based on Social Group Search Optimizer" [Best Thesis Award]

Honors and Awards

• EECS Rising Star, University of California, Berkeley	Oct. 2020
• Rising Star in Data Science, Center for Data and Computing (CDAC) at the University of Chicago	Dec. 2020
• Outstanding Graduate Research Award, Link Lab (2/250), University of Virginia	May 2020
• NSF Student Award to 2018 Federated Logic Conference (Floc) CAV mentoring workshop (only 10 student from U.S.)	dents May 2018
• NSF Student Travel Awards to present papers/posters at 2018 ACM Sensys, 2018 CPS Week, 2017 AC 2017 IEEE MASS, 2017 CPS Week, 2016 IEEE SmartComputing	CM Sensys,
• Computing Research Association (CRA) grant for CRA-W grad cohort	2016, 2017
• Graduate Fellowship, Department of Computer Science, University of Virginia	Aug. 2015
• Best Thesis Award (1/635), East China University of Science and Technology	Oct. 2015
• Shanghai Outstanding Graduates (1/635), Shanghai Department of Education	Mar. 2015
• Shanghai Excellent Student Cadre, Shanghai Department of Education	Dec. 2014
• National Scholarship (1/635), China Ministry of Education	Oct. 2014
• University Honor Student, East China University of Science and Technology	Sep. 2014
• Outstanding Research Award (3/267), East China University of Science and Technology	Nov. 2013
• Creative Technology Award in Science&Technology Innovation, Shanghai Education Department	Oct. 2013
• The 1st Prize National Fellowship for Grad Student, China Ministry of Education	Sep. 2012
• Best Thesis Award, East China University of Science and Technology $(1/267)$	Oct. 2012
• Haiding Industrial Fellowship, Haiding Group Co., Ltd., China	Oct. 2012
• Outstanding Volunteer, World Expo 2010 Shanghai, China	Oct. 2010
• Wanhua Industrial Fellowship, Wanhua Chemical Group Co., Ltd., China	Oct. 2010

Conference & Journal Publications:

- STLnet: Signal Temporal Logic Enforced Multivariate Recurrent Neural Networks. [pdf]
 Meiyi Ma, Ji Gao, Lu Feng, and John Stankovic.
 Conference on Neural Information Processing Systems (NeurIPS) 2020. (Acceptance Rate: 1900/9454 = 20%)
- DeResolver: A Decentralized Negotiation and Conflict Resolution Framework for Smart City Services.
 Yukun Yuan, Meiyi Ma, Songyang Han, Desheng Zhang, Fei Miao, John A. Stankovic, Shan Lin.
 ACM/IEEE 11th International Conference on Cyber-Physical Systems (ICCPS), 2021 Acceptance Rate: 26%
- 3. ViFin: Continuous Micro Finger Writing for AR/VR Interaction Using Vibration on a Commodity Smartwatch Wenqiang Chen, Lin Chen, **Meiyi Ma**, Farshid Parizi, Patel Shwetak, John Stankovic. ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT**), 2021
- SaSTL: Spatial Aggregation Signal Temporal Logic for Runtime Monitoring in Smart Cities. [pdf]
 Meiyi Ma, Ezio Bartocci, Eli Lifland, John Stankovic, and Lu Feng.
 In 2020 ACM/IEEE 11th International Conference on Cyber-Physical Systems (ICCPS), pp. 51-62. 2020.4 (Acceptance Rate: 23.7%)
- Smarthealth Technology Study Protocol to Improve Relationships between Older Adults with Dementia and Family Caregivers.
 Karen M. Rose, Kristina Coop Gordon, Emma C. Schlegel, Matthew McCall, Ye Gao, Meiyi Ma, Katherine A.

Lenger, Kathy Wright, Hongning Wang, John Stankovic. Journal of Advanced Nursing (in press) (Impact Factor: 2.561).

6. Data Sets, Modeling and Decision Making in Smart Cites: A survey. [pdf]

Meiyi Ma, Sarah Masud Preum, Mohsin Ahmed, William Tarneberg, Matt Ruiters, and John Stankovic.

ACM Transaction on Cyber Physical System (TCPS). 2019.12

- 7. A Review of Cognitive Assistants for Healthcare: Trends, Prospects, and Future Directions. [pdf] Sarah Preum, Sirajum Munir, **Meiyi Ma**, Mohammad Yasar, Ronald Williams, Homa Alemzadeh, John Stankovic. ACM Computing Surveys (**CSUR**) (Impact Factor: 7.99)
- 8. Sensing Eating Mimicry among Family Members. [pdf]
 Brooke Bell, Donna Spruijt-Metz, George G. Vega Yon, Abu Mondol, Ridwan Alam, **Meiyi Ma**, Ifat Emi, John Lach, John Stankovic, and Kayla De la Haye.
 Translational behavioral medicine (TBM) 9, no. 3 (2019): 422-430. (Impact Factor: 3.212)
- CityResolver: A Decision Support System for Conflict Resolution in Smart Cities. [pdf]
 Meiyi Ma, John Stankovic, Lu Feng.
 The ACM/IEEE International Conference on Cyber-Physical Systems (ICCPS). 2018.4. (Acceptance Rate: 30%)
- Runtime Monitoring of Safety and Performance Requirements in Smart Cities. [pdf]
 Meiyi Ma, John Stankovic, Lu Feng.
 ACM Internet of Safe Things (Safethings). 2017.11.
- 11. M2G: A Monitor of Monitoring Systems with Ground Truth Validation Features for Research-oriented Residential Applications. [pdf]

Meiyi Ma, R. Alam, B. Bell, K. Haye, D. Spruijt-Metz, J. Lach and J. Stankovic. 14th IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS). 2017.10

- 12. CityGuard: A Watchdog for Safety-Aware Conflict Detection in Smart Cities. [pdf] Meiyi Ma, Sarah Masud Preum, and John A. Stankovic. IEEE/ACM Second International Conference on Internet-of-Things Design and Implementation (IoTDI), 2017. (Acceptance Rate 29%)
- 13. Preclude2: Personalized Conflict Detection in Heterogeneous Health Applications. [pdf] Sarah Masud Preum, Abu Sayeed Mondol, **Meiyi Ma**, Hongning Wang, and John A. Stankovic. Pervasive and Mobile Computing 42 (2017): 226-247.

14. Preclude: Conflict Detection in Textual Health Advice. [pdf]
Sarah Preum, Abu Mondol, **Meiyi Ma**, Hongning Wang, and John A. Stankovic.
IEEE conference Pervasive Computing and Communications (**PerCom**), 2017. (Acceptance Rate 16.5%)

15. Detection and Resolution of Conflicts among Services in Smart Cites. [pdf] Meiyi Ma, S. Masud Preum, M. Ahmed, W. Tarneberg, M. Ruiters, and J. Stankovic. IEEE International Conference on Smart Computing. 2016.4 (Paper H-Index: 8)

16. Social Group Search Optimizer Algorithm for Ad Hoc Network. [pdf]
Xiang Feng, Meiyi Ma, Huiqun Yu.
Ad Hoc & Sensor Wireless Networks, 2015, 12(28) (Impact Factor, 1.03)

Ad Hoc & Sensor Wireless Networks, 2015, 12(28) (Impact Factor: 1.034)

Crystal Energy Optimization Algorithm. [pdf]
 Xiang Feng, Meiyi Ma, Huiqun Yu.
 Computational Intelligence, 2014,11. (Impact Factor: 1.196)

18. Lake-Energy Optimization Algorithm for Traveling Salesman Problem.

Xiang Feng, $\mathbf{Meiyi}\ \mathbf{Ma}$, Huiqun Yu.

Journal of Computer Research and Development. 2013, 50(9): 2015-2027.

19. Path Planning for Mobile Robots Based on Social Group Search Algorithm.

Xiang Feng, Meiyi Ma, Yin Shi, Huiqun Yu.

Journal of Computer Research and Development. 2013, 50(12): 2543-2553.

20. Cell Optimization Algorithm for Cache Resource Allocation of CDN.

Xiang Feng, Meiyi Ma, Huiqun Yu.

Journal of Computer Science. 2014, 41(1): 105-110

21. Intrusion Detection System Based On Hybrid Immune Algorithm.

Xiang Feng, **Meiyi Ma**, Tianling Zhao, Huiqun Yu.

Journal of Computer Science. 2014,41(12):43-47.

22. Virtual Emergency Rehearse System for Dangerous Gas Diffusion in Chemical Industry Park.

Gaoqi He, Wentao Ou, Meiyi Ma, Lipeng Zhang, Qincheng Hu, and Zhiyi Xu.

In Proceedings of the 10th ACM International Conference on Virtual Reality Continuum and Its Applications in Industry, pp. 455-458. 2011.

Full Papers under Review:

23. Formal Methods for Smart Cities.

Meiyi Ma, John Stankovic and Lu Feng.

IEEE Computer Magazine. (under submission)

24. CityPM: Predictive Monitoring with Logic-Calibrated Uncertainty for Smart Cities.[pdf]

Meiyi Ma, John Stankovic, Ezio Bartocci and Lu Feng.

(under conference submission)

25. A Novel Spatial-Temporal Specification-Based Monitoring System for Smart Cities

Meiyi Ma, John Stankovic, Eli Lifland, Ezio Bartocci and Lu Feng.

IEEE Internet of Things Journal (IoTJ) (under 1st-round revision)

26. MFED: A System for Monitoring Family Eating Dynamics

Md A. Mondol, Brooke Bell, **Meiyi Ma**, Ifat Emi, Ridwan Alam, Sarah M. Preum, Kayla Haye, John Lach, Donna Sprujt-Metz, John A. Stankovic

(under conference submission)

Demo & Poster Publications:

- 27. Poster Abstract: Predictive Monitoring with Uncertainty for Deep Learning Enabled Smart Cities Meiyi Ma, Lu Feng, Ezio Bartocci and John A. Stankovic.
 ACM Conference on Embedded Networked Sensor Systems (Sensys) 2020.
 - TOW Conference on Embedded Networked School Systems (Schoys) 2020.
- 28. Demo Abstract: A Monitoring, Modeling, and Interactive Recommendation System for in-home Caregivers Ye Gao, **Meiyi Ma**, Karen M. Rose, Kristina Coop Gordon, Hongning Wang, and John A. Stankovic. ACM Conference on Embedded Networked Sensor Systems (**Sensys**) 2020.
- 29. Demo Abstract: Continuous Micro Finger Writing Recognition with a Commodity Smartwatch, Wenqiang Chen, Lin Chen, Meiyi Ma, Farshid Parizi, Patel Shwetak, John Stankovic. ACM Conference on Embedded Networked Sensor Systems (Sensys) 2020.
- 30. Evaluating the impact of time demographic, and social effects on compliance to eating event-triggered EMA surveys in families.

Brooke Bell, Abu Mondol, **Meiyi Ma**, Ridwan Alam, Ifat Emi, Kayla de la Haye, John Lach, John Stankovic, and Donna Spruijt-Metz.

In annals of behavioral medicine, vol. 54, pp. S307-S307. Oxford Univ Press Inc, 2020. (Impact Factor: 4.48)

31. Detecting Eating Mimicry in Families.

Kayla de la Haye, Brooke Bell, George G. Vega Yon, Abu Mondol, Ridwan Alam, **Meiyi Ma**, Ifat Emi, John Lach, Stankovic J.A., Donna Spruijt-Metz.

5th International Conference on Computational Social Science 2019.

32. Simulating Conflict Detection in Heterogeneous Services of a Smart City: Demo Abstract.

Meiyi Ma, Sarah Masud Preum, and John A. Stankovic.

2017 IEEE/ACM Second International Conference on Internet-of-Things Design and Implementation (IoTDI).

33. Conflict Detection in Online Textual Health Advice: Demo Abstract.
Sarah Preum, Abu S. Mondol, **Meiyi Ma**, Hongning Wang, and John A. Stankovic.

ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN). 2017.

GRANTS

Two NSF proposals were submitted with a major component based on my research:

- NSF SCC-IRG: Socially Informed Services Conflict Governance through Specification, Detection, Resolution and Prevention. (Funded, 2020)
 - This proposal is collaborative across four universities, partially based on my work Detection and Resolution of Conflicts among Services in Smart Cities (SmartComp 2016), CityGuard (IoTDI 2017), CityResolver (ICCPS 2018) and SaSTL (ICCPS 2020).
- NSF CPS: Safe Imitation Learning for Medical CPS with Uncertainty (Under Review)
 - This proposal is collaborative across two universities, partially based on my work CityPM (under review) and STLnet (NeurIPS 2020).

MENTORING

Shuyang Dong (Ph.D. Student)
 Project 1: Formal Verification and Deep Learning Enabled Smart City Simulator
 Project 2: Social-aware Fairness in Smart Cities
 Sam Sun (Ph.D. Student)
 Social-aware Conflict Detection in Smart Cities
 Haoxiang Zhang (Undergraduate)
 Fall 2020 - Now

• Haoxiang Zhang (Undergraduate)

Converting Natural Language to Formal Specification

• Hao (Issac) Li (Undergraduate) Fall 2020 - Now Conflict Detection in City Requirements

• Eli Lifland (Undergraduate) Spatial Aggregation Signal Temporal Logic Results: Two research papers (one published in ICCPS 2020, one submitted to IoTJ) and an	Fall 2018 - Spring 2019 a open-source city	9
 monitor tool Oindrila Ghosh (Master Student) Deep Spatial-Temporal Prediction for Smart Cities 	2019 Spring	g
• Omkar Bhat (Master Student) Deep Spatial-Temporal Prediction for Smart Cities.	2019 Spring	g
• Nova Zhang (Undergraduate) City Requirement Formalization Result: Released a Dataset on City Requirements	Spring 2019	9
• Rahul Tuladhar (Undergraduate) Simulation and Prediction for Smart Cities Result: A city dataset on simulated cross-domain	Fall 2018 - Spring 2019	9
• Timothy Davison (Undergraduate) Spatial STL Monitor for Smart Cities. Result: An open-source city monitor tool	Fall 2017 - Spring 2018	8
Teaching Experience		_
• Guest Lecturer, CS6501 Signal Processing, Machine Learning, and Control (Graduate Level How to Build Deep Learning Models with Pytorch	el Class) Oct. 2020	0
• Guest Lecturer, CS6190 Computer Science Perspectives (Graduate Level Class) Research in Smart Cities	Oct. 2020	0
• Guest Lecturer, CS6501 Cyber Physical Systems and the Internet of Things (Graduate Leve SaSTL: Spatial Aggregation Signal Temporal Logic for Runtime Monitoring in Smart Cities	vel Class) April 2020	0
• Guest Lecturer, CS6501 Signal Processing, Machine Learning, and Control (Graduate Level How to Build Deep Learning Models with Pytorch	el Class) Oct. 2019	9
• Guest Lecturer, CS6501 Formal Methods for CPS &Robots (Graduate Level Class) Signal Temporal Logic and Runtime Verification in Smart Cities	March 2019	9
• Guest Lecturer, CS4501 Smart Worlds (Undergraduate Level Class) Conflict Detection in Smart Cities	Nov. 2017	7
• TA, CS6456: Operating System (Graduate Level Class, 24 students)	Fall 2015	5
• TA, CS6501: Defense against Dark Arts (Graduate Level Class, 73 students)	Fall 2015	5
• TA, CS6750: Database (Graduate Level Class, 36 students)	Spring 2016	6
• TA, CS4750: Database (Undergraduate Level Class, 113 students)	Spring 2016	6
• Lab Instructor, Operation System (Undergraduate Level Class, 120 students),		
East China University of Science and Technology	2011 - 2013	3
• Part-time Teacher (Volunteer), Shanghai Caohang Elementary School	2011 - 2012	2
SELECTED TALKS		
• Paper Presentation, Conference on Neural Information Processing Systems (NeurIPS) STLnet: Signal Temporal Logic Enforced Multivariate Recurrent Neural Networks	Nov. 2020	0
• Job Talk Start, EECS Rising Stars Workshop at UC Berkeley Formal Logic enhanced Learning for Internet of Things	Nov. 2020	0
• Poster Presentation, EECS Rising Stars Workshop at UC Berkeley Formal Logic enhanced Learning for CPS/IoT	Nov. 2020	0
• Poster Presentation, Conference on Embedded Networked Sensor Systems (Sensys) Predictive Monitoring with Uncertainty for Deep Learning enabled Smart Cities	Nov. 2020	0

• Paper Presentation, Cyber-Physical System Week SaSTL: Spatial Aggregation Signal Temporal Logic for Runtime Monitoring in Smart Citie	April 2020
• Demo Presentation, UVa Linklab Opening House	March 2019
Spatial-Temporal Runtime Verification for Smart Cities	
• Invited Presentation, Commonwealth Conference on National Defense and Intelligence Conflict Detection and Resolution among Smart Services in Smart Cities	July 2019
• Paper Presentation, Cyber-Physical System Week CityResolver: A Decision Support System for Conflict Resolution in Smart Cities.	April 2018
• Demo Presentation, Cyber-Physical System Week Simulating Conflict Detection in Heterogeneous Services of a Smart City	April 2018
• Demo presentation, UVa Linklab Opening House	March 2018
• Paper Presentation, ACM Internet of Safe Things (Safethings) Runtime Verification for Smart Cities	Nov. 2017
• Paper Presentation, IEEE International Conference on Mobile Ad hoc and Sensor System M2G: A Monitor of Monitoring Systems with Ground Truth Validation Features for Resea Applications.	,
• Demo presentation , NSF Smart and Connected Health PI workshop Simulating Conflict Detection in Heterogeneous Services of a Smart City	Sep. 2017
• Paper Presentation, The ACM/IEEE International Conference on Internet of Things D CityGuard: Conflict Detection among Services in Smart Cities	esign and Implementation April 2017
• Demo presentation, UVa SEAS Open House	March 2017
Runtime Detection and Resolution of Conflicts in Smart Cities	111011011 =011
• Demo presentation, UVa SEAS Open House	March 2016
AsthmaGuide: an asthma monitoring and advice ecosystem	
Professional Services	
• Information Director, ACM Transactions on Computing for Healthcare	2018 - Now
• Web and Publicity Chair, 6th Workshop on Monitoring and Testing of Cyber-Physical	Systems 2020 - Now
• Student Volunteer, Conference on Embedded Networked Sensor Systems (Sensys)	Nov. 2020
• Department Representative, Society of Women Engineers(GradSWE)	Sep. 2019 - Sep. 2020
• Chair of Leadership and Student Success, UVa CS Graduate Student Council	Sep. 2019 - Jan. 2020
• Publicity Chair, ACM Workshop on the Internet of Safe Things	2018, 2019
• Local Chair, International Workshop on Next-Generation Cyber-Physical Systems	2018
• UVa International Graduate TA Panelist, Center for Teaching Excellence	
and the Center for American English Language and Culture (4 years)	A 0010 A 0010
Invited Danon navious (navious 20 + nanons for journals and conferences in areas of I	Aug. 2016 - Aug. 2019
• Invited Paper reviewer (reviewed 30+ papers for journals and conferences in areas of Elearning, Cyber-Physical System, and Healthcare):	0
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Learning, Cyber-Physical System, and Healthcare):	Formal Method, Machine
Learning, Cyber-Physical System, and Healthcare): — Smart Health Journal	Formal Method, Machine 2018
Learning, Cyber-Physical System, and Healthcare): - Smart Health Journal - Runtime Verification Conference (RV)	Formal Method, Machine 2018 2018, 2019, 2020 2019
Learning, Cyber-Physical System, and Healthcare): - Smart Health Journal - Runtime Verification Conference (RV) - International Conference on Quantitative Evaluation of SysTems (QEST)	Formal Method, Machine 2018 2018, 2019, 2020 2019
Learning, Cyber-Physical System, and Healthcare): - Smart Health Journal - Runtime Verification Conference (RV) - International Conference on Quantitative Evaluation of SysTems (QEST) - ACM-IEEE International Conference on Formal Methods and Models for System De	Formal Method, Machine 2018 2018, 2019, 2020 2019 sign 2019, 2020
Learning, Cyber-Physical System, and Healthcare): - Smart Health Journal - Runtime Verification Conference (RV) - International Conference on Quantitative Evaluation of SysTems (QEST) - ACM-IEEE International Conference on Formal Methods and Models for System De - ACM Transaction on Computing for Healthcare	Formal Method, Machine 2018 2018, 2019, 2020 2019 sign 2019, 2020
Learning, Cyber-Physical System, and Healthcare): - Smart Health Journal - Runtime Verification Conference (RV) - International Conference on Quantitative Evaluation of SysTems (QEST) - ACM-IEEE International Conference on Formal Methods and Models for System De - ACM Transaction on Computing for Healthcare - International Conference on Tools and Algorithms for the Construction and Analysis	Formal Method, Machine 2018 2018, 2019, 2020 2019 sign 2019, 2020 of Systems (TACAS) 2019
Learning, Cyber-Physical System, and Healthcare): - Smart Health Journal - Runtime Verification Conference (RV) - International Conference on Quantitative Evaluation of SysTems (QEST) - ACM-IEEE International Conference on Formal Methods and Models for System De - ACM Transaction on Computing for Healthcare - International Conference on Tools and Algorithms for the Construction and Analysis - ACM/IEEE International Conference on Cyber-Physical Systems (ICCPS)	Formal Method, Machine 2018 2018, 2019, 2020 2019 sign 2019, 2020 of Systems (TACAS) 2019 2019, 2020
Learning, Cyber-Physical System, and Healthcare): - Smart Health Journal - Runtime Verification Conference (RV) - International Conference on Quantitative Evaluation of SysTems (QEST) - ACM-IEEE International Conference on Formal Methods and Models for System De - ACM Transaction on Computing for Healthcare - International Conference on Tools and Algorithms for the Construction and Analysis - ACM/IEEE International Conference on Cyber-Physical Systems (ICCPS) - Springer GeoJournal	Formal Method, Machine 2018 2018, 2019, 2020 2019 sign 2019, 2020 of Systems (TACAS) 2019 2019, 2020 2020
Learning, Cyber-Physical System, and Healthcare): - Smart Health Journal - Runtime Verification Conference (RV) - International Conference on Quantitative Evaluation of SysTems (QEST) - ACM-IEEE International Conference on Formal Methods and Models for System De - ACM Transaction on Computing for Healthcare - International Conference on Tools and Algorithms for the Construction and Analysis - ACM/IEEE International Conference on Cyber-Physical Systems (ICCPS) - Springer GeoJournal - Springer Autonomous Robots (AURO) - Springer's International Journal on Software Tools for Technology Transfer.	Formal Method, Machine 2018 2018, 2019, 2020 2019 sign 2019, 2020 2019, 2020 2019, 2020 2020 2020 2020
Learning, Cyber-Physical System, and Healthcare): - Smart Health Journal - Runtime Verification Conference (RV) - International Conference on Quantitative Evaluation of SysTems (QEST) - ACM-IEEE International Conference on Formal Methods and Models for System De - ACM Transaction on Computing for Healthcare - International Conference on Tools and Algorithms for the Construction and Analysis - ACM/IEEE International Conference on Cyber-Physical Systems (ICCPS) - Springer GeoJournal - Springer Autonomous Robots (AURO)	Formal Method, Machine 2018 2018, 2019, 2020 2019 sign 2019, 2020 2019, 2020 2019, 2020 2020 2020 2020

INTERN

- Research Intern, Business Intelligence, Trip.com Group Limited, Shanghai, China
- Feb. 2015 Aug. 2015
- Software Engineering Intern, HK-Macao Information Industry Co., Ltd, Shanghai, China Apr. 2011 Sep. 2011

REFERENCES

John A. Stankovic

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Lu Feng

Assistant Professor Department of Computer Science University of Virginia lu.feng@virginia.edu (434) 982-2388

Chenyang Lu

Fullgraf Professor Department of Computer Science and Engineering Washington University in St. Louis lu@wustl.edu (314) 935-4855

John Lach

Dean, Professor School of Engineering and Applied Science George Washington University jlach@gwu.edu (202) 994-6080