Achilleas Anastasopoulos

Associate Professor
EECS Department
University of Michigan
1301 Beal Avenue
Ann Arbor, MICHIGAN 48109-2122

Phone: (734)615-4024
Fax: (734)763-8041
E-mail: `anastas@umich.edu`
`http://www.eecs.umich.edu/~anastas`

EDUCATION

Ph.D. in Electrical Engineering   August 1999
University of Southern California, Los Angeles, CA

M.S. in Electrical Engineering   December 1994
University of Southern California, Los Angeles, CA

Diploma in Electrical Engineering   July 1993
National Technical University of Athens, Athens, Greece

AWARDS

Co-author of best student paper award for: A. Nazari, S. Pradhan, and A. Anastasopoulos "New Bounds on the Maximal Error Exponent for Multiple-Access Channels," ISIT, Seoul, Korea, July 2009.

EECS Departmental Award: For service as Chair of the EE:Systems Graduate Program, for outstanding teaching evaluations, and for sustained research excellence   2009

CAREER Award, National Science Foundation (NSF) for the proposal "Exploring the complexity limits of joint data detection and channel estimation: exact, polynomial-complexity solutions and ultra-fast approximations"   2004

Outstanding Research Paper Award, University of Southern California   1999

Myronis Fellowship, The Graduate School, University of Southern California   1996

Outstanding Teaching Assistant Award, University of Southern California   1995

Technical Chamber of Greece Award for Academic Excellence   1990-1993

PROFESSIONAL EXPERIENCE

Associate Professor, Department of Electrical Engineering
and Computer Science, University of Michigan   2006-present

Assistant Professor, Department of Electrical Engineering
and Computer Science, University of Michigan   1999-2006

Instructor, University of Southern California   Winter 1997

Research Assistant, University of Southern California   September 1993 – December 1998

Teaching Assistant, University of Southern California   September 1993 – May 1995

PROFESSIONAL ACTIVITIES

Associate Editorship:

1. IEEE Transactions on Information Theory. Associate Editor for Communications

March 2020–August 2023

2. IEEE Transactions on Communications. Associate Editor for Iterative Detection, Estimation, and Coding in the area of Wireless Communication

November 2003–December 2008

Conference Organization

• TPC chair/co-chair

1. Technical Program Committee co-Chair, ISIT 2025, (Ann Arbor, MI).
2. Technical Program Committee co-Chair, Communication Theory Symposium, ICC'21, (Montreal, QC), June 2021.

• TPC member

1. Technical Program Committee member, Next Generation Networking Symposium, ICC'18, (Kansas City, MO), May 2018.
2. Technical Program Committee member, International Workshop on Signal Processing Advances in Wireless Communications, SPAWC'18, (Kalamata, Greece), June 2018.
3. Technical Program Committee member, Next Generation Networking Symposium, ICC'17, (Paris, France), May 2017.
4. Technical Program Committee member, Next Generation Networking Symposium, ICC'16, (Kuala Lumpur, Malaysia), May 2016.
5. Technical Program Committee member, ISIT'15, (Hong Kong), June 2015.
6. Technical Program Committee member, Next Generation Networking Symposium, ICC'15, (London, UK), June 2015.
7. Technical Program Committee member, Cooperative Communications, Distributed MIMO and Relaying, VTC'15, (Glasgow, UK), Spring 2015.
8. Technical Program Committee member, Cooperative Communications, Distributed MIMO and Relaying, VTC'14, (Seoul, Korea), Spring 2014.
9. Technical Program Committee member, Communication Theory Symposium, Globecom'12 (Anaheim, CA), December 2012.
10. Technical Program Committee member, Transmission Technologies, VTC'07, (Baltimore, MD), Fall 2007.
11. Technical Program Committee member, Communication Theory Symposium, Globecom'04 (Dallas, TX), November 2004.
12. Technical Program Committee member, Communication Theory Symposium, ICC'03, (Anchorage, AK), May 2003.

Membership: Senior member IEEE (Communication Society, Information Theory Society)

NSF panelist for proposals submitted to CISE/CCR

2006, 2017

NSF panelist for CAREER proposals submitted to CISE/CCR   2002, 2004

External reviewer for a proposal submitted to Swiss National Science Foundation   2002

External reviewer for proposals submitted to Qatar National Research Fund   2009–2012

Invited talks

1. A. Anastasopoulos, "Bayesian learning with non-myopic strategic agents",
   (a) Purdue,
   (b) ASU,
   (c) UCLA,
   (d) UIUC,
   (e) Northwestern,   Feb.-May 2019

2. A. Anastasopoulos, "Mechanism Design with Allocative, Informational and Learning Constraints", Northwestern, May 2017

3. A. Anastasopoulos, "A systematic process for evaluating structured equilibria in dynamic games with asymmetric information",
   (a)USC,
   (b)UCLA,   Feb. 2016

4. A. Anastasopoulos and D. Vasal, "Incentive design for cooperative communications: achieving socially optimal solutions through money transfers in dynamic games," in *USC, Communications Sciences Institute 30th Anniversary*, Los Angeles, CA, Nov. 2012.

5. A. Anastasopoulos and D. Vasal, "Communication and control problems in information theory, coding, and MAC-layer design," in *Notre Dame*, South Bend, IN, Apr. 2012.

6. A. Anastasopoulos, "A Framework for Heterogeneous Quality-of-Service Guarantees in Wireless Networks: A Communication-theoretic Approach," University of Parma, Italy, April 2004.

7. A. Anastasopoulos, "Exploring the complexity limits of joint data detection and channel estimation: exact, polynomial-complexity solutions and ultra-fast approximations,"
   University of Toronto,   Oct. 2003
   University of Texas, Austin,   Oct. 2003
   Ohio State University,   Jan. 2004
   University of Parma, Italy,   May 2004
   University of Athens, Greece,   Jul. 2004

8. A. Anastasopoulos, "Ultra-fast joint estimation/decoding for wireless channels,"
   State University of New York, Buffalo,   Feb. 2003
   UCLA,   Dec. 2002
   USC,   Nov. 2002

9. K. M. Chugg and A. Anastasopoulos, "Phase Tracking for Turbo Codes: An Approach Based on Adaptive SISOs," *28-th Annual IEEE Communication Theory Workshop 1999,* Aptos, CA, May 1999.

10. K. M. Chugg and A. Anastasopoulos, "Adaptive SISO Algorithms and Iterative Detection for Systems with Parametric Uncertainty,"
    University of Bologna,   Dec. 1998
    California Institute of Technology,   Nov. 1998
    Communication Sciences Institute Annual Technical Review, USC,   Nov. 1998

EDUCATIONAL ACTIVITIES[1]

Courses Taught

1. EECS 650: Channel Coding Theory   2002, 2004, 2005, 2007, 2010, 2011, 2013
2. EECS 598: Modern Coding Theory   2004
3. EECS 555: Communication Theory   2014–2015
4. EECS 554: Digital Communication and Codes   1999–2001, 2008, 2010–2015
5. EECS 501: Probability and Random Processes   2011, 2012, 2018
6. EECS 455: Digital Communication Signals and Systems   2000, 2002, 2003
7. EECS 401/301: Probability Theory for Engineers   2009, 2015-2016
8. EE 464: Probability Methods in Engineering, University of Southern California   1997
9. EECS 353: Introduction to Communication Systems   2001, 2003, 2005, 2007, 2008
10. EECS 351: Digital Signal Processing   2017
11. EECS 216: Introduction to Signals and Systems   2014–2018
12. Short Course on "Equalization Techniques for Discrete Multitone Systems" INTRACOM S.A., Peania, Greece   January-February 1998

Course Development

1. Developed a course (with a Lab component) on "Software Defined Radio" (jointly with W. Stark)   2019
2. Developed and taught a course on "Modern Coding Theory"   2004

Ph.D. Students Graduated

1. Nasimeh Heydaribeni, "Analysis and Design of Information Transmission in Networks of Strategic Agents," (Graduation date: Dec 2021, now Post-Doctoral research fellow at UCSD)

2. Abhinav Sinha, "Mechanism design with allocative, informational and learning constraints," (Graduation date: May 2017, now Post-Doctoral research fellow at Columbia University, New York)

3. Deepanshu Vasal, "Dynamic decision problems with cooperative and strategic agents and asymmetric information," (Graduation date: May 2016, now Post-Doctoral research fellow at the University of Texas-Austin)

4. Ali Nazari (jointly with S. Pradhan), "Error Exponent for Discrete Memoryless Multiple-Access Channels," (Graduation date: May 2011, now with J.P. Morgan, quantitative research group, New York, NY)

5. Jung Hyun Bae, "Capacity-Achieving Schemes for Finite-State Channels," (Graduation date: May 2011, now with Samsung Information Systems America, San Diego, CA)

6. Kaiann Fu, "Finite-Length and Asymptotic Analysis and Design of LDPC Codes for Binary Erasure and Fading Channels," (Graduation date: August 2007, now with Intel, San Fransisco, CA)

7. Chun-hao Hsu, "Design and Analysis of Capacity-Achieving Codes and Optimal Receivers with Low Complexity," (Graduation date: December 2006; now with Qualcomm, Campbell, CA)

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[1]Unless otherwise noted, all courses taught and students supervised are at the University of Michigan.

8. Shih Yu Chang (jointly with W. Stark), "Design and optimization of multiple access layer for energy/delay efficient networks," (Graduation date: August 2006, now with the Department of Computer Science, National Tsing-Hua University, Taiwan)

9. Arvind Krishnamoorthy, "Analysis and design of space-time codes for fast fading channels," (Graduation date: August 2005; now with Motorola Inc., Schaumbourg, IL)

10. Lihua Weng (jointly with S. Pradhan), "Error exponent tradeoffs for multiple access and broadcast channels," (Graduation date: August 2005; now with MStar Semiconductor Inc., Taiwan)

11. Rza Nuriyev, "Capacity and coding for noncoherent channels with memory," (Graduation date: May 2003; now with Boston Consulting Group, Moscow)

Ph.D. Students Supervised

Aathira Prasad	2021–2022
Jui Wu	2014–2017
Idin Motedayen-Aval	2000–2004,

M.S. Students Supervised

1. Raghu Arghal   Winter 2019

2. Shashank Krishnamurthy Bhat (Developing a set of Laboratory experiments using GNURADIO and USRPs; jointly with W. Stark)   Summer 2019

3. Ibrahim Ajlan   Summer 2019

4. Gautam Thakur (Developing a set of Laboratory experiments using GNURADIO and USRPs) 2018-2019

5. Multidisciplinary Design Program: Anusha Joshi, Jun Luo, Xiaoran Peng   2018

6. Group consisting of: Alex Ying, Gautam Thakur   2018

7. Group consisting of: Yu Wang, Yang Xiao   2015–2016

8. Zhe Feng   2014–2015

9. Yiajing Chen (jointly with T.Mudge)   Fall 2011-2013

10. S. Sharma   Fall 2011-Summer 2012

11. Group consisting of (jointly with W. Stark): Jaehyun Chang, Sheng-Yang Hung, Taewon Kim, Sunghwan Moon, Hedieh Alavi Tamaddoni, Erh-Kang Tsao, Suhang Wang   Spring 2011-Summer 2012

12. K. Sohn   2009-2011

13. Zehra Fatima Rizvi   Spring/Summer 2004

14. Chia-han Lee   Fall 2002

15. Subramanian Jayaram   Winter 2002

16. Apurva A Turakhia   Fall 2001,Winter 2002

17. Srikumar Kanajan   Fall 2001

18. Rajeshwar Singh Khara   Fall 2001

19. Fahd Binjawad Pirzada   Fall 2001

20. Hai-Jo Tarn   Fall 1999,Winter 2000

Undergraduate Students Supervised

1. Ryan Faulkner   Winter 2019
2. Matthew Zhu   Winter 2019
3. Multidisciplinary Design Program: Cedric Bernard, Yifan Zhang   2018
4. Group consisting of John Robison, Jianrong Yu: UROP team "Heterodox macro-economic models with sound mathematical/engineering foundations"   2017-2018
5. Multidisciplinary Design Program: Raghu Arghal, Weifong Chou, Matthew Price, Abhinav Reddy, Zachary Robinson, Yuan Tian, Jessica Yan   2017
6. Group consisting of: Jingyao Hu, Yier Zhang,   2017
7. Group consisting of: Keyu Chen, Jianan Jiang   2017
8. Xisheng Yao   2013
9. Paul Rigge (jointly with Z. Zhang and S. Pradhan)   2012
10. Frederic Sala   2009
11. Annapoorna Leela Mallepalle   2009
12. Group consisting of: Chao Yuan, Rahul Kundu, Yu Wang (jointly with W. Stark)   2009
13. Brian Bagnal   Spring/Summer 2008
14. Nibal Arzouni   2007
15. Brent Ditri   2005
16. Thomas Rainwater   2005
17. Stephen Gallagher   2005
18. Michael Quinn   2005
19. Wichai Pawgasame   Fall 2002/Winter 2003
20. Donald Chan   Fall 2003
21. Nataphone Subsin   Winter 2002
22. Tufan Coskun Karalar   Spring/Summer 2002
23. Tufan Coskun Karalar   Spring/Summer 2002

Current PhD/MS/Undergraduate students

1. Xupeng Wei (PhD)   Fall 2019-present

RESEARCH GRANTS/CONTRACTS

Current and Past Grants

1. Sponsor: National Science Foundation
   Title: SWIFT: Instantaneous Feedback-based Adaptive Communications and Networks
   Amount: $750,000
   Duration: September 2022 – August 2025
   Co-PIs: H. S. Kim (PI), L. Ying

2. Sponsor: National Science Foundation (ENG-ECCS)
   Title: Collaborative Research: Distributed Mechanism Design with Learning Guarantees: Resource Allocation among Networked Strategic Agents
   Amount: $450,000
   Duration: September 2020 – September 2023
   Co-PIs: Jianghai Hu (Purdue)

3. Sponsor: Associate Dean for Undergraduate Education (CoE, UoM)
   Title: Course development (Hybrid Learning) for EECS 216 Amount: $4900
   Duration: July 2020
   Co-PIs: Stephane Lafortune

4. Sponsor: Department of Defense, Army Research Office (DOD-ARO-DURIP)
   Title: Intelligent collaborative wireless networks enabled by heterogeneous software-defined radios
   Amount: $160,000
   Co-PIs: H. S. Kim, W. Stark

5. Sponsor: National Science Foundation (ENG-ECCS)
   Title: A control-theoretic framework for analysis and design of networked systems with strategic agents via structured strategies
   Amount: $400,000
   Duration: September 2016 – September 2019
   Co-PIs: V. Subramanian

6. Sponsor: National Science Foundation (CISE-CCR)
   Title: CIF:Large:Collaborative Research: Controlled Sensing, and Distributed Signal Processing and Decision Making in Networked Systems
   Amount: $2,500,000
   Duration: September 2011 – September 2016
   Co-PIs: M. Moghaddam, S. Pradhan, D. Teneketzis (PI), and 3 co-PIs from UIUC

7. Sponsor: King Abdullah University of Science and Technology (KAUST)
   Title: Energy-efficient cooperative communications
   Amount: $300,000
   Duration: July 2010 – June 2012
   Co-PIs: W. Stark, K. Winick

8. Sponsor: Microsoft
   Title: Pushing the Wireless Coexistence Boundary using the SORA Platform
   Amount: $120,000
   Duration: March 2010 – February 2011 and June 2011 – May 2012
   Co-PIs: M. Liu (PI), W. Stark

9. Sponsor: National Science Foundation (CISE-CCR)–small ITR
   Title: A framework for heterogenous quality-of-service guarantees in wireless networks: a communication-theoretic approach
   Amount: $400,000
   Duration: September 2004 – September 2007
   Co-PIs: S. Pradhan (PI)

10. Sponsor: National Aeronautics and Space Administration (Research Training Grant)
    Title: Reconfigurable LDPC codes and receivers for deep-space communications
    Amount: $24,000

Duration: July 2004 – June 2007
Graduate Student: Kaiann Fu

11. Sponsor: National Science Foundation (CISE-CCF)
Title: CAREER:Exploring the complexity limits of joint data detection and channel estimation: exact, polynomial-complexity solutions and ultra-fast approximations
Amount: $412,000
Duration: February 2004 – February 2009

12. Sponsor: Horace H. Rackham School of Graduate Studies, University of Michigan
Title: Writing on scratched dirty paper: a capacity-achieving strategy for the broadcast channel
Amount: $10,000
Duration: May 2003 – August 2003

13. Sponsor: Office of Naval Research
Title: Energy-efficient wireless networking
Amount: $1,000,000
Duration: January 2003 – December 2005
Co-PIs: S. Lafortune, M. Liu, W. Stark (PI), D. Teneketzis

14. Sponsor: National Science Foundation (CISE-CCR)–small ITR
Title: Design of novel receiver algorithms for OFDM incorporating realistic indoor channel modeling
Amount: $400,000
Duration: September 2002 – August 2005
Co-PIs: J. Volakis

PUBLICATIONS

Books

B1. Keith Michael Chugg, Achilleas Anastasopoulos, and Xiaopeng Chen. *Iterative Detection: Adaptivity, Complexity Reduction, and Applications*. Kluwer Academic Publishers, 2001

Refereed Journals

Full articles

J1. Chin-Wei Hsu, Achilleas Anastasopoulos, and Hun Seok Kim. Instantaneous feedback-based opportunistic symbol length adaptation for reliable communication. *IEEE Trans. Communications*, 71(7):3876–3888, 2023

J2. Ilai Bistritz, Nasimeh Heydaribeni, and Achilleas Anastasopoulos. Informational cascades with nonmyopic agents. *IEEE Trans. Automatic Control*, 67(9):4451–4466, 2022

J3. Deepanshu Vasal and Achilleas Anastasopoulos. A framework for studying decentralized Bayesian learning with strategic agents. *Stochastic Systems*, Mar. 2022

J4. Xupeng Wei and Achilleas Anastasopoulos. Mechanism design for demand management in energy communities. *Games*, 12(3), 2021

J5. Deepanshu Vasal and Achilleas Anastasopoulos. Signaling equilibria for dynamic LQG games with asymmetric information. *IEEE Trans. on Control of Network Systems*, 8(3):1177–1188, 2021

J6. Abhinav Sinha and Achilleas Anastasopoulos. Distributed mechanism design with learning guarantees for private and public goods problems. *IEEE Trans. Automatic Control*, 65(10):4106–4121, 2020

J7. Nasimeh Heydaribeni and Achilleas Anastasopoulos. Distributed mechanism design for network resource allocation problems. *IEEE Transactions on Network Science and Engineering*, 7(2):621–636, 2020

J8. Deepanshu Vasal, Abhinav Sinha, and Achilleas Anastasopoulos. A systematic process for evaluating structured perfect Bayesian equilibria in dynamic games with asymmetric information. *IEEE Trans. Automatic Control*, 64(1):81–96, Jan. 2019

J9. Abhinav Sinha and Achilleas Anastasopoulos. Mechanism design for resource allocation in networks with intergroup competition and intragroup sharing. *IEEE Trans. on Control of Network Systems*, 5(3):1098–1109, Sept. 2018

J10. Abhinav Sinha and Achilleas Anastasopoulos. Incentive mechanisms for fairness in resource allocation among strategic agents. *IEEE J. Select. Areas Commun.*, 35(2):288–301, Nov. 2017. (special issue on "Game theory for networks")

J11. Ali Nazari, S. Sandeep Pradhan, and Achilleas Anastasopoulos. Error exponent for multiple-access channels: Upper bounds. *IEEE Trans. Information Theory*, 61(7):3605–3621, July 2015

J12. Q. Zheng, Y. Chen, R. Dreslinski, C. Chakrabartiy, Achilleas Anastasopoulos, S. Mahlke, and T. Mudge. Using graphics processing units in an LTE base station. *Journal of Signal Processing Systems*, 78(1):35–47, Jan. 2015

J13. Deepanshu Vasal and Achilleas Anastasopoulos. Stochastic control of relay channels with cooperative and strategic users. *IEEE Trans. Communications*, 62(10):3434–3446, Sept. 2014

J14. Ali Nazari, Achilleas Anastasopoulos, and S. Sandeep Pradhan. Error exponent for multiple-access channels: Lower bounds. *IEEE Trans. Information Theory*, 60(9):5095–5115, Sept. 2014

J15. Lihua Weng, Achilleas Anastasopoulos, and S. Sandeep Pradhan. Diversity gain regions for MIMO fading broadcast channels. *IEEE Trans. Communications*, 59(10):2716–2728, Oct. 2011

J16. Chun-Hao Hsu and Achilleas Anastasopoulos. Capacity-achieving codes with bounded graphical complexity and maximum likelihood decoding. *IEEE Trans. Information Theory*, 56(3):992–1006, Mar. 2010

J17. Jung Hyun Bae and Achilleas Anastasopoulos. Capacity-achieving codes for finite-state channels with maximum-likelihood decoding. *IEEE J. Select. Areas Commun.*, 27:974–984, Aug. 2009

J18. Lihua Weng, S. Sandeep Pradhan, and Achilleas Anastasopoulos. Error exponent regions for Gaussian broadcast and multiple access channels. *IEEE Trans. Information Theory*, 8:2919–2942, July 2008

J19. Achilleas Anastasopoulos, Keith Michael Chugg, G. Colavolpe, G. Ferrari, and R. Raheli. Iterative detection for channels with memory. *Proc. IEEE*, 95(6):1272–1294, June 2007

J20. Idin Motedayen-Aval, Arvind Krishnamoorthy, and Achilleas Anastasopoulos. Optimal joint detection/estimation in fading channels with polynomial complexity. *IEEE Trans. Information Theory*, 53(1):209–223, Jan. 2007

J21. C. P. Lim, J. L. Volakis, K. Sertel, R. W. Kindt, and Achilleas Anastasopoulos. Indoor propagation models based on rigorous methods for site-specific multipath environments. *IEEE Trans. Antennas and Prop.*, 54(6):1718–1725, June 2006

J22. Chun-Hao Hsu and Achilleas Anastasopoulos. Design and analysis of joint data detection and frequency/phase estimation algorithms. *IEEE J. Select. Areas Commun.*, 23:1707–1717, Sept. 2005

J23. Arvind Krishnamoorthy and Achilleas Anastasopoulos. Code and receiver design for the non-coherent fast fading channel. *IEEE J. Select. Areas Commun.*, 23:1769–1778, Sept. 2005

J24. Kaiann Fu and Achilleas Anastasopoulos. Analysis and design of LDPC codes for time-selective complex-fading channels. *IEEE Trans. Wireless Communications*, 4:1175–1185, May 2005

J25. Rza Nuriyev and Achilleas Anastasopoulos. Capacity and coding for the block-independent noncoherent AWGN channel. *IEEE Trans. Information Theory*, 51:866–883, Mar. 2005

J26. G. Ferrari, Achilleas Anastasopoulos, G. Colavolpe, and R. Raheli. Adaptive iterative detection for the phase uncertain channel: Limited-tree-search versus truncated-memory detection. *IEEE Trans. Veh. Tech.*, 53(2):433–442, Mar. 2004

J27. Rza Nuriyev and Achilleas Anastasopoulos. Rotationally invariant and rotationally robust codes for the AWGN and the noncoherent channel. *IEEE Trans. Communications*, 51(12):2001–2010, Dec. 2003

J28. Rza Nuriyev and Achilleas Anastasopoulos. Pilot-symbol-assisted coded transmission over the block-noncoherent AWGN channel. *IEEE Trans. Communications*, 51(6):953–963, June 2003

J29. Idin Motedayen-Aval and Achilleas Anastasopoulos. Polynomial-complexity noncoherent symbol-by-symbol detection with application to adaptive iterative decoding of turbo-like codes. *IEEE Trans. Communications*, 51(2):197–207, Feb. 2003

J30. Achilleas Anastasopoulos and Keith Michael Chugg. Adaptive iterative detection for phase tracking in turbo coded systems. *IEEE Trans. Communications*, 49(12):2135–2144, Dec. 2001

J31. Achilleas Anastasopoulos and Keith Michael Chugg. Adaptive Soft-Input Soft-Output algorithms for iterative detection with parametric uncertainty. *IEEE Trans. Communications*, 48(10):1638–1649, Oct. 2000

J32. Achilleas Anastasopoulos and Andreas Polydoros. Adaptive soft-decision algorithms for mobile fading channels. *European Trans. Telecommun.*, 9(2):183–190, March/April 1998

Letters

L1. Chun-Hao Hsu and Achilleas Anastasopoulos. Capacity achieving LDPC codes through puncturing. *IEEE Trans. Information Theory*, 54:4698–4706, Oct. 2008

L2. Shih Yu Chang, Wayne E. Stark, and Achilleas Anastasopoulos. Energy-delay analysis of MAC protocols in wireless networks. *IEEE Trans. Wireless Communications*, 7:2841–2845, Aug. 2008

L3. C. P. Lim, J. L. Volakis, and Achilleas Anastasopoulos. BER calculation for multiple-antenna systems in Ricean fading channels. *IEEE Trans. Veh. Tech.*, 56(4):1862–1866, July 2007

L4. Achilleas Anastasopoulos. Sequence error probability lower bounds for joint detection and estimation. *IEEE Trans. Communications*, 51(3):347–351, Mar. 2003

L5. Keith Michael Chugg and Achilleas Anastasopoulos. On symbol error probability bounds for ISI-like channels. *IEEE Trans. Communications*, 49(10):1704–1709, Oct. 2001

Conferences of journal archival quality

CJ1. Abhinav Sinha and Achilleas Anastasopoulos. A distributed mechanism for public goods allocation with dynamic learning guarantees. In *NetEcon 2017: The 12th Workshop on the Economics of Networks, Systems and Computation*, pages 2:1–2:6, Cambridge, Massachusetts, June 2017. ACM

CJ2. Abhinav Sinha and Achilleas Anastasopoulos. A general mechanism design methodology for social utility maximization with linear constraints. *ACM SIGMETRICS Performance Evaluation Review*, 42(3):12–15, 2014

Refereed Conferences

2023:

C1. Xupeng Wei and Achilleas Anastasopoulos. Coordination in markov games with asymmetric information. In *Proc. IEEE Conf. on Decision and Control*, Singapore, Dec. 2023

2022:

C2. Xupeng Wei and Achilleas Anastasopoulos. Social learning with a self-interested coordinator. In *Proc. IEEE Conf. on Decision and Control*, pages 3137–3144, Cancun, Mexico, Dec. 2022

C3. Tarunesh Verma, Achilleas Anastasopoulos, and Todd Austin. These aren't the caches you're looking for: Stochastic channels on randomized caches. In *IEEE International Symposium on Secure and Private Execution Environment Design (SEED)*, Sept. 2022

C4. Mohsen Heidari, Achilleas Anastasopoulos, and S. Sandeep Pradhan. Upper bounds on the feedback error exponent of channels with states and with memory. In *Proc. International Symposium on Information Theory*, pages 1330–1335, Espoo, Finland, June 2022

2021:

C5. Chin-Wei Hsu, Achilleas Anastasopoulos, and Hun Seok Kim. Instantaneous feedback-based opportunistic symbol length adaptation for reliable communication. In *Proc. Globecom Conf.*, pages 01–06, Madrid, Spain, Dec. 2021

C6. Xupeng Wei and Achilleas Anastasopoulos. Mechanism design for peak demand management in energy communities. In *Proc. IEEE Conf. on Decision and Control*, Austin, TX, USA, Dec. 2021

C7. Nasimeh Heydaribeni and Achilleas Anastasopoulos. Joint information and mechanism design for a queuing system. In *Proc. IEEE Conf. on Decision and Control*, Austin, TX, USA, Dec. 2021

2020:

C8. Achilleas Anastasopoulos and Sandeep Pradhan. Decentralized sequential active hypothesis testing and the MAC feedback capacity. In *Proc. International Symposium on Information Theory*, pages 2085–2090, Los Angeles, CA, June 2020

2019:

C9. Nasimeh Heydaribeni and Achilleas Anastasopoulos. Linear equilibria for dynamic LQG games with asymmetric information and dependent types. In *Proc. IEEE Conf. on Decision and Control*, pages 5971–5976, Nice, France, Dec. 2019

C10. Nasimeh Heydaribeni, Ilai Bistritz, and Achilleas Anastasopoulos. Informational cascades can be avoided with non-myopic agents. In *Proc. Allerton Conf. Commun., Control, Comp.*, pages 655–662, Monticello, Illinois, Sept. 2019

C11. Ilai Bistritz, Nasimeh Heydaribeni, and Achilleas Anastasopoulos. Characterizing non-myopic information cascades in Bayesian learning. In *30th International Conference on Game Theory*, Stony Brook, NY, July 2019

2018:

C12. Mohsen Heidari, Achilleas Anastasopoulos, and S. Sandeep Pradhan. On the reliability function of discrete memoryless multiple-access channel with feedback. In *2018 IEEE Information Theory Workshop (ITW)*, pages 101–105, Guangzhou, China, Nov. 2018

C13. Ilai Bistritz and Achilleas Anastasopoulos. Characterizing non-myopic information cascades in Bayesian learning. In *Proc. IEEE Conf. on Decision and Control*, pages 2716–2721, Miami Beach, FL, Dec. 2018

C14. Nasimeh Heydaribeni and Achilleas Anastasopoulos. Distributed mechanism design for multicast transmission. In *Proc. IEEE Conf. on Decision and Control*, pages 4200–4205, Miami Beach, FL, Dec. 2018

2017:

C15. Abhinav Sinha and Achilleas Anastasopoulos. Distributed mechanism design with learning guarantees. In *Proc. IEEE Conf. on Decision and Control*, pages 5000–5007, Melbourne, Australia, Dec. 2017

C16. Dipankar Maity, Achilleas Anastasopoulos, and John Baras. Linear quadratic games with costly measurements. In *Proc. IEEE Conf. on Decision and Control*, pages 6223–6228, Melbourne, Australia, Dec. 2017

C17. Achilleas Anastasopoulos and Jui Wu. Variable-length codes for channels with memory and feedback: error exponent lower bounds. In *Proc. International Symposium on Information Theory*, pages 1495–1499, Aachen, Germany, June 2017

2016:

C18. Deepanshu Vasal and Achilleas Anastasopoulos. Decentralized Bayesian learning in dynamic games. In *Proc. Allerton Conf. Commun., Control, Comp.*, pages 264–273, Monticello, Illinois, Sept. 2016

C19. Deepanshu Vasal and Achilleas Anastasopoulos. Signaling equilibria for dynamic LQG games with asymmetric information. In *Proc. IEEE Conf. on Decision and Control*, pages 6901–6908, Las Vegas, NV, Dec. 2016

C20. Abhinav Sinha and Achilleas Anastasopoulos. Structured perfect Bayesian equilibrium in infinite horizon dynamic games with asymmetric information. In *Proc. Allerton Conf. Commun., Control, Comp.*, pages 256–263, Monticello, Illinois, Sept. 2016

C21. Jui Wu and Achilleas Anastasopoulos. Zero-rate achievability of posterior matching schemes for channels with memory. In *Proc. International Symposium on Information Theory*, pages 2384–2388, Barcelona, Spain, July 2016

C22. Jui Wu and Achilleas Anastasopoulos. On the capacity of the chemical channel with feedback. In *Proc. International Symposium on Information Theory*, pages 295–299, Barcelona, Spain, July 2016

C23. Deepanshu Vasal and Achilleas Anastasopoulos. A systematic process for evaluating structured perfect Bayesian equilibria in dynamic games with asymmetric information. In *American Control Conference*, pages 3378–3385, Boston, MA, July 2016

2015:

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N1. Achilleas Anastasopoulos and Sandeep Pradhan. New perspectives on MAC feedback capacity using decentralized sequential active hypothesis testing paradigm. In *Information Theory and Applications*, San Diego, CA, Feb. 2020

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N4. Nasimeh Heydaribeni and Achilleas Anastasopoulos. Distributed mechanism design for unicast transmission. In *Information Theory and Applications*, pages 1–6, San Diego, CA, Feb. 2018

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Tutorials

T1. A. Anastasopoulos, A. Sinha "Tutorial: Mechanism Design for Network Allocation Problems," ICC 2018.

Patents and Invention Disclosures

P1. K. M. Chugg, A. Anastasopoulos "Adaptive Iterative Detection," US Patent 7,092,457 B1 (Aug. 15, 2006)