R E S U M E
Assist. Prof. Vadim Indelman

Department of Aerospace Engineering
Technion—Israel Institute of Technology
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Place and Date of Birth: Russia, June 15, 1979
Marital Status: Married, one child

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ACADEMIC DEGREES

- B.Sc. (Summa Cum Laude), Aerospace Engineering, Technion - IIT, 2002
- B.A. (Cum Laude), Computer Science, Technion – IIT, 2002
- M.A., Aerospace Engineering, Technion - IIT, 2008
- Ph.D. (direct track), Aerospace Engineering, Technion - IIT, 2011

ACADEMIC APPOINTMENTS

07/2014 - Present   Assistant Professor, Department of Aerospace Engineering, Technion – IIT

2012-2014   Post Doctorate Fellow, Institute of Robotics and Intelligent Machines Georgia Institute of Technology, Atlanta, USA

PROFESSIONAL EXPERIENCE

2011-2012   Researcher and algorithm developer, Computer vision department, RAFAEL, Advanced Defense Systems, Israel

2004-2007   Algorithm developer, Navigation and Control departments, RAFAEL, Advanced Defense Systems, Israel

2002-2008   Technical project officer Engineering-level projects supervision in defense industries on behalf of the Israel Air Force (IAF).

RESEARCH INTERESTS

Autonomous navigation and mapping, consistent distributed information fusion, belief-space planning and active sensing, decision making under uncertainty, distributed robust perception, inference with probabilistic graphical models, vision-aided navigation (VAN) and simultaneous localization and mapping (SLAM).

TEACHING EXPERIENCE

- Introduced and developed the course Vision Aided Navigation (joint level), Department of Aerospace Engineering, Technion – IIT.
- Guest lecturing in Introduction to Robotics (joint level), Computer Science Department, Technion.
- Guest lecturing in Algorithmic Robotics and Motion Planning (graduate level course), Computer Science Department, Tel Aviv University.
- Guest lecturing in 3D Reconstruction (graduate level course), College of Computing, Georgia Institute of Technology.
- Teaching assistant, Dynamic Systems (undergraduate level course), Department of Aerospace Engineering, Technion.

DEPARTMENTAL ACTIVITIES

- 2015-present, Aerospace Department representative in Department of Scientific and Technological Education, Technion.

PUBLIC PROFESSIONAL ACTIVITIES

Conference and Workshop Activities:

- Session chair at the IEEE International Conference on Robotics and Automation (ICRA), 2014,: *Path planning: Multiple Mobile Robots and Agents*
- Session co-chair at the IEEE International Conference on Robotics and Automation (ICRA), 2014: *SLAM: Visual Odometry*
- Workshop Co-organizer: Workshop on Multi-View Geometry in Robotics, Robotics: Science and Systems (RSS), 2013 – 2015
- Program committee (PC) member, Robotics: Science and Systems (RSS), 2012, 2013, 2015
- Program committee (PC) member, IEEE Symposium on Safety, Security and Rescue Robotics, 2013

Journal Reviewer:

- IEEE Transactions on Robotics (T-RO): 2013-2015
- International Journal of Robotics Research (IJRR): 2016, 2014, 2012
- IEEE Robotics and Automation Letters (RA-L): 2015
- Journal of Guidance, Control and Dynamics (JGCD): 2015
- Advances in Space Research: 2014
- Robotics Journal: 2015
- Autonomous Robots: 2014
- IET Control Theory & Applications (CTA): 2014
- IEEE Transactions on Vehicular Technology (TVT): 2013
- IEEE Sensors Journal: 2012
- Computer Vision and Image Understanding (CVIU): 2011

- Journal of Field Robotics (JFR): 2011

Conference Reviewer:

- Robotics Science and Systems Conference (RSS): 2015, 2013, 2012
- International Symposium on Robotics Research (ISRR): 2015
- IEEE International Conference on Robotics and Automation (ICRA): 2014-2016
- IEEE Conference on Intelligent Robotic Systems (IROS): 2012-2015
- Computer Vision and Pattern Recognition (CVPR): 2014, 2013
- IEEE Symposium on Safety, Security and Rescue Robotics (SSRR): 2013
- Third Joint 3DIM/3DPVT Conference Conference: 2013
- IEEE Workshop on Robot Vision (WORV): 2013
- International Conference on 3D Imaging, Modeling, Processing, Visualization, and Transmission (3DIMPVT): 2012
- BarSym Symposium on Estimation, Navigation, and Spacecraft Control: 2012

MEMBERSHIP IN PROFESSIONAL SOCIETIES
- IEEE membership
- Member of the Technical Committee on Multi-Robot Systems (TC MRS) of the IEEE Robotics and Automation Society

FELLOWSHIPS, AWARDS AND HONORS

- 2015: **Best Workshop Poster Award,** workshop on the Problem of Mobile Sensors, in conjunction with Robotics Science and Systems (RSS) conference, 2015
- 2013: **Merhav Award** for top PhD research in GNC-related areas
- 2013: **Best Poster Award,** Workshop on Robot Vision (WoRV 2013)
- 2010: **Hanin Award** for excellence in research
- 2009: **Ilan Ramon Excellence Scholarship Award**
- 2008: **Best Teaching Assistant Award**, Aerospace Engineering, Technion
- 2002,2006: **Quarterly Excellence Awards,** RAFAEL ltd.
- 2002: B.Sc. **Summa Cum Laude**, Aerospace Engineering, Technion
- 2002: B.A. **Cum Laude**, Computer Science, Technion
- 1998-2002: **President's Excellence Honor Awards**, Technion

GRADUATE STUDENTS
(PA=Primary Adviser, AA=Additional Adviser)

Theses in Progress

- Shira Mezi, M.Sc., Department of Aerospace Engineering, Technion, PA
- Yair Ben Elisha, M.Sc., Department of Aerospace Engineering, Technion, PA
- Tal Regev, M.Sc., Department of Computer Science, Technion, PA
- Michael Chojnacki, M.Sc., TASP, Technion, PA (AA: Ehud Rivlin)
- Eran Nissim, M.Sc., Department of Aerospace Engineering, Technion, PA (AA: Ehud Rivlin)

- Dmitry Koptikov, M.Sc., TASP, Technion, PA
  Award: Gutwirth and Jacobs excellence fellowship, 2016
- Antony Thomas, M.Sc., Department of Aerospace Engineering, Technion, PA
  Award: Sherman Interdisciplinary fellowship for graduate students, 2016.
- Elad Farhi, M.Sc., TASP, Technion, PA
- Khen Elimelech, M.Sc., TASP, Technion, PA
- Vladimir Ovechkin, M.Sc., TASP, Technion, PA

POSTDOC AND RESEARCH SCIENTISTS SUPPORTED

- Dr. Shashank Pathak, since November 2015
- Dr. Elina Moldavskaya, since October 2015

INVITED TALKS (International)
- "Distributed perception and estimation in multi-robot systems", workshop on Principles of Multi-Robot Systems, in conjunction with Robotics Science and Systems (RSS) conference, Rome, Italy, July 2015.

INVITED TALKS (In Israel)
- "Distributed Cooperative Robust Localization and Mapping from Arbitrary Initial Poses via EM and Model Selection", Israeli Navigation Workshop, July 2014.
- "Decision Making and Planning in Sparse (Conservative) Belief Space", the Israeli Association for Automatic Control (IAAC) workshop "Motion Control Methods in Robotics", November 2015.
- "Towards Robust Autonomous Navigation in Perceptually Aliased GPS-Deprived Environments", Israeli Navigation Workshop, February 2016.

GUEST LECTURES

- "Advances in autonomous operation in uncertain or unknown environments: distributed robust inference and data association, and planning in generalized belief space", Department of Computer Science, Technion, 2014
- "Autonomous operation in uncertain and partially unknown large-scale environments: perception, information fusion and planning", Department of Computer Science, Technion, Ben Gurion and Haifa University; Faculty of Engineering, Bar Ilan University, November 2013.
- "Autonomous navigation in uncertain and partially unknown environments", Faculty of Aerospace Engineering, Technion, November 2013.
- "Efficient incremental structure from motion and vision-based single- and multi-agent localization", Computer Science and Electrical Engineering Departments in: Weizmann Institute of Science, Technion, Tel-Aviv University, Bar Ilan University, Hebrew University of Jerusalem, March 2013.
- "Vision-Aided Single- and Multi-Robot Navigation in Unknown Environments", Faculty of Aerospace Engineering, Technion, March 2013 (Merhav award seminar).

- "Incremental light bundle adjustment for SfM and robotics", Department of Computer Science, University College London, September 2012.
- "Incremental light bundle adjustment for SfM and multi-robot localization", Computer Science and Electrical Engineering departments, Technion, May 2012.
- "Graph-Based Cooperative Navigation Based on Three-View Constraints", Sarnoff/SRI International, Princeton, NJ, January 2012.
- "Graph-Based Cooperative Navigation Based on Three-View Geometry Constraints", Computer Science and Artificial Intelligence Laboratory (CSAIL), MIT, Cambridge, September 2011.

SIGNIFICANT PROFESSIONAL PROJECTS

- 2013-2014, ARL Micro Autonomous Systems and Technology (MAST)
- 2012, DARPA All Source Positioning Navigation (ASPN)
- 2015-Present, OMEK Consortium

PUBLICATIONS
Graduate students underlined

Theses

[1] V. Indelman, "Navigation Performance Enhancement Using Online Mosaicking", Ph.D. dissertation, Technion - Israel Institute of Technology, April 2011. Advisors: Pini Gurfil, Ehud Rivlin and Hector Rotstein.

Refereed Papers in Professional Journals

[1] V. Indelman, P. Gurfil, E. Rivlin and H. Rotstein, "Navigation Aiding Based on Coupled Online Mosaicking and Camera Scanning", Journal of Guidance, Control and Dynamics, 33(6): 1866-1882, 2010.

[2] V. Indelman, P. Gurfil, E. Rivlin and H. Rotstein, "Real-Time Vision-Aided Localization and Navigation Based on Three-View Geometry", IEEE Transactions on Aerospace and Electronic Systems, 48(3): 2239-2259, 2012.

[3] V. Indelman, P. Gurfil, E. Rivlin and H. Rotstein, "Distributed Vision-Aided Cooperative Localization and Navigation Based on Three-View Geometry", Robotics and Autonomous Systems, 60(6): 822-840, 2012.

[4] V. Indelman, P. Gurfil, E. Rivlin and H. Rotstein, "Graph-Based Distributed Cooperative Navigation for a General Multi-Robot Measurement Model", International Journal of Robotics Research, 31(9): 1057-1080, 2012.

[5] V. Indelman, S. Williams, M. Kaess and F. Dellaert, "Information Fusion in Navigation Systems via Factor Graph Based Incremental Smoothing", Robotics and Autonomous Systems, 961(8): 721-738, 2013.

[6] S. Williams, V. Indelman, M. Kaess, R. Roberts, J. J. Leonard and F. Dellaert, "Concurrent Filtering and Smoothing: A Parallel Architecture for Real-Time Navigation and Full Smoothing", International Journal of Robotics Research, 33(12): 1544-1568, 2014.

[7] V. Indelman, L. Carlone and F. Dellaert, "Planning in the Continuous Domain: a Generalized Belief Space Approach for Autonomous Navigation in Unknown Environments", International Journal of Robotics Research, 34(7): 849-882, 2015.

[8] V. Indelman, R. Roberts and F. Dellaert, "Incremental Light Bundle Adjustment for Structure from Motion and Robotics", Robotics and Autonomous Systems, vol. 70, 63-82, 2015.

[9] V. Indelman, E. Nelson, J. Dong, N. Michael, and F. Dellaert, "Incremental Distributed Inference from Arbitrary Poses and Unknown Data Association", IEEE Control Systems Magazine, Special Issue on Distributed Control and Estimation for Robotic Vehicle Networks, accepted.

[10] V. Indelman, "No Correlations Involved: Decision Making Under Uncertainty in the Conservative Information Space", IEEE Robotics and Automation Letters (RA-L), accepted.

[11] X. Yan, V. Indelman, B. Boots, "Incremental Sparse GP Regression for Continuous-time Trajectory Estimation & Mapping", submitted.

[12] V. Indelman, "Cooperative Multi-Robot Belief Space Planning for Autonomous Navigation in Unknown Environments", submitted.

Books and Book Chapters

[1] V. Indelman and F. Dellaert, "Incremental Light Bundle Adjustment: Probabilistic Analysis and Extension to Robotic Navigation", in edited collection "New Developments in Robot Vision", Cognitive Systems Monographs Volume 23, Springer Berlin Heidelberg, 111-136, 2015.

[2] E. Nelson, V. Indelman, N. Michael and F. Dellaert, "An Experimental Study of Robust Distributed Multi-robot Data Association from Arbitrary Poses", in edited collection "Experimental Robotics, the 14th International Symposium on Experimental Robotics", Springer Tracts in Advanced Robotics 109, 323-338, 2016.

Refereed Papers in Conference Proceedings

[1] V. Indelman, P. Gurfil, E. Rivlin and H. Rotstein, "Navigation Performance Enhancement Using Rotation and Translation Measurements from Online Mosaicking", AIAA Guidance, Navigation and Control Conference, Hilton Head, SC, USA, August 2007.

[2] V. Indelman, P. Gurfil, E. Rivlin and H. Rotstein, "Navigation Aiding Using On-Line Mosaicking", IEEE/ION Position Location and Navigation System (PLANS) Conference, California, USA, May 2008.

[3] V. Indelman, P. Gurfil, E. Rivlin and H. Rotstein, "Navigation Aiding Using Image-Based Relative Motion Measurements", 49th Israel Annual Conference on Aerospace Sciences, Paper No. IACAS49-452, Israel, March 2009.

[4] V. Indelman, P. Gurfil, E. Rivlin and H. Rotstein, "Real-Time Mosaic-Aided Aerial Navigation: II. Sensor Fusion", AIAA Guidance, Navigation and Control Conference, Chicago, USA, August 2009.

[5] V. Indelman, P. Gurfil, E. Rivlin and H. Rotstein, "Real-Time Mosaic-Aided Aerial Navigation: I. Motion Estimation", AIAA Guidance, Navigation and Control Conference, Chicago, USA, August 2009.

[6] V. Indelman, P. Gurfil, E. Rivlin and H. Rotstein, "Mosaic Aided Navigation: Tools, Methods and Results", IEEE/ION Position Location and Navigation System (PLANS) Conference, California, USA, May 2010.

[7] V. Indelman, P. Gurfil, E. Rivlin and H. Rotstein, "Handling Loop Scenarios for Vision-Aided Aerial Navigation based on Three-View Geometry", 50th Israel Annual Conference on Aerospace Sciences, Paper No. IACAS50-588, Israel, February 2010.

[8] V. Indelman, P. Gurfil, E. Rivlin and H. Rotstein, "Distributed Vision-Aided Cooperative Localization and Navigation based on Three-View Geometry", Proceedings of the IEEE Aerospace Conference, Montana, USA, March 2011.

[9] V. Indelman, P. Gurfil, E. Rivlin and H. Rotstein, "Graph-based Distributed Cooperative Navigation", Proceedings of the IEEE International Conference on Robotics and Automation (ICRA), Shanghai, China, May 2011.

[10] V. Indelman, P. Gurfil, E. Rivlin and H. Rotstein, Graph-Based Cooperative Navigation Using Three-View Constraints: Method Validation", IEEE/ION Position Location and Navigation System (PLANS) Conference, South Carolina, USA, April 2012.

[11] V. Indelman, "Bundle Adjustment Without Iterative Structure Estimation and its Application to Navigation", IEEE/ION Position Location and Navigation System (PLANS) Conference, South Carolina, USA, April 2012.

[12] V. Indelman, S. Williams, M. Kaess and F. Dellaert, "Factor Graph Based Incremental Smoothing in Inertial Navigation Systems", International Conference on Information Fusion, Singapore, July 2012.

[13] M. Kaess, S. Williams, V. Indelman, R. Roberts, J. J. Leonard and F. Dellaert, "Concurrent Filtering and Smoothing", International Conference on Information Fusion, Singapore, July 2012.

[14] V. Indelman, R. Roberts, C. Beall and F. Dellaert, "Incremental Light Bundle Adjustment", British Machine Vision Conference, Surrey, UK, September 2012.

[15] A. Cunningham, V. Indelman and F. Dellaert, "Consistent Decentralized Graphical SLAM with Anti-Factor Down-Dating", Late Breaking Report, 10th IEEE International Symposium on Safety Security and Rescue Robotics (SSRR), Texas, USA, November 2012.

[16] V. Indelman, R. Roberts and F. Dellaert, "Probabilistic Analysis of Incremental Light Bundle Adjustment", IEEE Workshop on Robot Vision (WoRV), Clearwater, Florida, USA, January 2013. **Best poster award**.

[17] A. Cunningham, V. Indelman and F. Dellaert, "DDF-SAM 2.0: Consistent Distributed Smoothing and Mapping", IEEE International Conference on Robotics and Automation (ICRA), Karlsruhe, Germany, May 2013.

[18] V. Indelman, A. Mellim and F. Dellaert, "Incremental Light Bundle Adjustment for Robotics Navigation", IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Tokyo, Japan, November 2013.

[19] V. Indelman, L. Carlone and F. Dellaert, "Towards Planning in Generalized Belief Space", International Symposium on Robotics Research (ISRR), December 2013.

[20] V. Indelman, L. Carlone and F. Dellaert, "Planning Under Uncertainty in the Continuous Domain: a Generalized Belief Space Approach", IEEE International Conference on Robotics and Automation (ICRA), Hong Kong, June China, 2014.

[21] L. Carlone, Z. Kira, C. Beall, V. Indelman and F. Dellaert, "Eliminating Conditionally Independent Sets in Factor Graphs: A Unifying Perspective based on Smart Factors", IEEE International Conference on Robotics and Automation (ICRA), Hong Kong, China, June 2014.

[22] V. Indelman, E. Nelson, N. Michael and F. Dellaert, "Multi-Robot Pose Graph Localization and Data Association from Unknown Initial Relative Poses via Expectation Maximization", IEEE International Conference on Robotics and Automation (ICRA), Hong Kong, China, June 2014.

[23] E. Nelson, V. Indelman, N. Michael and F. Dellaert, "An Experimental Study of Robust Distributed Multi-Robot Data Association from Arbitrary Poses", International Symposium on Experimental Robotics (ISER), Morocco, June 2014.

[24] V. Indelman, N. Michael and F. Dellaert, "Incremental Distributed Robust Inference from Arbitrary Robot Poses via EM and Model Selection", in Workshop on Distributed Control and Estimation for Robotic Vehicle Networks, Robotics: Science and Systems (RSS) Conference, Berkeley, USA, July 2014.

[25] X. Yan, V. Indelman, B. Boots, "Incremental Sparse GP Regression for Continuous-time Trajectory Estimation and Mapping", in Workshop on Autonomously Learning Robots, Neural Information Processing Systems (NIPS), Quebec, Canada, December 2014.

[26] V. Indelman, N. Michael and F. Dellaert, "Distributed Navigation with Unknown Initial Poses and Data Association via Expectation Maximization", in Israel Annual Conference on Aerospace Sciences (IACAS), February 2015.

[27] V. Indelman, L. Carlone and F. Dellaert, "A Generalized Belief Space Approach for Autonomous Navigation in Unknown Environments", Israel Annual Conference on Aerospace Sciences (IACAS), February 2015.

[28] V. Indelman, "Resorting to Conservative Information Fusion Techniques for Autonomous Decision Making Under Uncertainty", Israel Annual Conference on Aerospace Sciences (IACAS), February 2015.

[29] V. Indelman, "Towards Information-Theoretic Decision Making in a Conservative Information Space", American Control Conference (ACC), July 2015.

[30] S. Choudhary, V. Indelman, H. I. Christensen and F. Dellaert, "Information-based Reduced Landmark SLAM," IEEE International Conference on Robotics and Automation (ICRA), Washington, USA, May 2015.

[31] J. Dong, E. Nelson, V. Indelman, N. Michael and F. Dellaert, "Distributed Real-time Cooperative Localization and Mapping using an Uncertainty-Aware Expectation Maximization Approach," IEEE International Conference on Robotics and Automation (ICRA), Washington, USA, May 2015.

[32] V. Indelman, "Towards Multi-Robot Active Collaborative State Estimation via Belief Space Planning", IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Hamburg, Germany, September 2015.

[33] X. Yan, V. Indelman, B. Boots, "Incremental Sparse GP Regression for Continuous-time Trajectory Estimation & Mapping", the International Symposium on Robotics Research (ISRR), Italy, September 2015.

[34] V. Indelman, "Towards Cooperative Multi-Robot Belief Space Planning in Unknown Environments", the International Symposium on Robotics Research (ISRR), Italy, September 2015.

[35] V. Indelman, "On Multi-Robot Active Collaborative Inference in Unknown Environments via Belief Space Planning", workshop on Principles of Multi-Robot Systems, in conjunction with Robotics Science and Systems (RSS) conference, Rome, Italy, July 2015.

[35] V. Indelman, "Distributed Perception and Estimation: a Short Survey", workshop on Principles of Multi-Robot Systems, in conjunction with Robotics Science and Systems (RSS) conference, Rome, Italy, July 2015.

[37] V. Indelman, "On Decision Making and Planning in the Conservative Information Space - Is the Concept Applicable to Active SLAM?", workshop on the Problem of Mobile Sensors: Setting future goals and indicators of progress for SLAM, in conjunction with Robotics Science and Systems (RSS) conference, Rome, Italy, July 2015.

[38] X. Yan, V. Indelman, B. Boots, "Incremental Sparse GP Regression for Continuous-time Trajectory Estimation & Mapping", workshop on the Problem of Mobile Sensors: Setting future goals and indicators of progress for SLAM, in conjunction with Robotics Science and Systems (RSS) conference, Rome, Italy, July 2015.
Best poster award.

[39] V. Indelman, "No Correlations Involved: Decision Making Under Uncertainty in the Conservative Information Space", IEEE International Conference on Robotics and Automation (ICRA), Stockholm, Sweden, May 2016, accepted.

[40] T. Regev, V. Indelman, "Towards Multi-Robot Decentralized Belief Space Planning in Unknown Environments via Efficient Re-Evaluation of Impacted Paths", Israel Annual Conference on Aerospace Sciences (IACAS), February 2016.

[41] V. Indelman, "No Correlations Involved: Decision Making Under Uncertainty in the Conservative Information Space", Israel Annual Conference on Aerospace Sciences (IACAS), February 2016.

[42] V. Indelman, "Towards BAFOS: Bundle Adjustment with Feature Orientation and Scale", Israel Annual Conference on Aerospace Sciences (IACAS), February 2016.

Unrefereed Conference and Workshop Papers (Abstract-level)

[1] V. Indelman, R. Roberts and F. Dellaert, "Incremental Light Bundle Adjustment for Vision-based Navigation and General Structure from Motion Problems", The 4th Israeli Conference on Robotics (ICR), Tel Aviv, Israel, November 2013.

[2] V. Indelman, L. Carlone and F. Dellaert, "Towards Planning in Generalized Belief Space with Applications to Mobile Robotics", The 4th Israeli Conference on Robotics (ICR), Tel Aviv, Israel, November 2013.

[3] D. Kopitkov, V. Indelman, "Computationally Efficient Decision Making and Belief Space Planning in High-Dimensional State Spaces", The 5th Israeli Conference on Robotics (ICR), Herzliya, Israel, April 2016.

[4] T. Regev, V. Indelman, "Towards Multi-Robot Decentralized Belief Space Planning in Unknown Environments via Efficient Re-Evaluation of Impacted Paths", The 5th Israeli Conference on Robotics (ICR), Herzliya, Israel, April 2016.

[5] M. Chojnacki, V. Indelman, "Vision-based Dynamic Target Trajectory And Ego-motion Estimation Using Incremental Light Bundle Adjustment", The 5th Israeli Conference on Robotics (ICR), Herzliya, Israel, April 2016.

[6] D. Kopitkov, X. Yan, J. Dong, B. Boots, V. Indelman, "iLBA-GP: Incorporating Sparse Gaussian Process Regression within Incremental Light Bundle Adjustment", The 5th Israeli Conference on Robotics (ICR), Herzliya, Israel, April 2016.

[7] A. Thomas, S. Pathak, V. Indelman, "Robust Active Perception for Belief Space Planning in Perceptually Aliased and Uncertain Environments", The 5th Israeli Conference on Robotics (ICR), Herzliya, Israel, April 2016.

Technical Reports

[1] V. Indelman and F. Dellaert, "Rapid Loop Updates", Technical Report GT-RIM-CP&R-2012-001, Georgia Institute of Technology, RIM Center, September 2012.

[2] V. Indelman, "No Correlations Involved: Decision Making Under Uncertainty in the Conservative Information Space - Supplementary Material", Technical Report ANPL-2016-01, January 2016.