

# Curriculum Vitae

Professor Jan Tommy Gravdahl

PhD, MSc Engineering Cybernetics

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## Affiliation

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## Publications

Author of 5 books:

- P. Liljebäck, K.Y. Pettersen, Ø. Stavadahl and J.T. Gravdahl, Snake Robots: Modelling, Mechatronics, and Control, Springer Verlag, London, 2013
- From, P.J., Gravdahl, J.T. and Pettersen, K.Y., "Modeling and control of vehicle-manipulator Systems", Springer Verlag, London, 2014
- Gravdahl, J.T. and O. Egeland, "Compressor surge and rotating stall: Modeling and control ", Springer Verlag, London, 1999
- O. Egeland and Gravdahl, J.T., "Modeling and simulation for control", Marine Cybernetics, Trondheim, 2002
- Pettersen, K.Y.; Gravdahl, J.T.; Nijmeijer, H. (Eds.), "Group Coordination and Cooperative Control", Series: Lecture Notes in Control and Information Sciences, Vol. 336, Springer Verlag, Heidelberg, 2006

Author of more than 200 scientific journal- and conference publications. For full list, see

<http://folk.ntnu.no/tomgra/publications.html> .

## Current positions

- Professor, Department of Engineering Cybernetics, NTNU, 2005-
- Technology advisor and co-founder, Eelume AS
- Student Councillor, Department of Engineering Cybernetics, NTNU, 2005-
- Member of the "Motion control group" at the Dept. of Engineering Cybernetics, a research group graded "Excellent" by the evaluation of the ICT-research institutions in Norway carried out by the Norwegian research council in 2003 and 2012
- Deputy member of the board for research and education of researchers (Utvalg for forskning og forskerutdanning), Faculty of Information Tech., Mathematics and Electrical Engineering, 2008-
- Member of the council for the PhD programme in medical technology, NTNU 2012-
- Member of SUROMA, Samarbeidsutvalget for romrelatert aktivitet mellom NTNU, NAROM og ARS, 2011-

## Academic Degrees

1998                      PhD (Dr.ing), Engineering Cybernetics, NTNU.

1994                      MSc (Siv.ing), Engineering Cybernetics, NTNU.

## Previous Positions

2008-2015	Board member of the NTNU/SINTEF Gemini centre Advanced Robotics
2009-2014	Key Scientist, Strategic University Program on Control, Information and Communication Systems for Environmental and Safety Critical Systems
2009-2013	Member of the council (instituttråd) Department of Engineering Cybernetics
2004-2013	Scientific advisor to SINTEF Electronics and Cybernetics
2012-2013	Board member, Board of Faculty of Information Technology, Mathematics and Electrical Engineering
2012-2013	Medlem av tilstenningsutvalget for akademiske stillinger IME-fakultetet
2009-2012	Deputy board member, Board of Faculty of Information Technology, Mathematics and Electrical Engineering,
2008-2009	Head of department. Dept. of Engineering Cybernetics, NTNU
2010-2011	Member of studieprogramrådet for MTTK
2004-2009	Key Scientist, Strategic U. Program on Comp.Methods in Nonlinear Motion Control
2005-2007	Member of the board for research and education of researchers (Utvalg for forskning og forskerutdanning), Faculty of Information Tech., Math. and Electrical Engineering,
2007-2011	Member of the Editorial board of the Elsevier journal Simulation Modelling Practice and Theory.
2007-2008	Visiting professor with the Centre for Complex Dynamical Systems and Control, The University of Newcastle, Australia, July'07-June'08
2005-2007	Deputy head of department. Dept. of Engineering Cybernetics, NTNU
2005-2009	Member of the council (instituttråd) Department of Engineering Cybernetics, NTNU
2001-2005	Associate Professor, Dept. of Engineering Cybernetics, NTNU
1999-2001	Post Doctoral Fellow. Financed by ABB Industri AS and Department of Engineering Cybernetics. Work on modeling and active stabilization of centrifugal compressors for natural gas transport.
1999	Lecturer in Control Engineering , Dept. of Engineering Cybernetics, NTNU
1998	Post Doctoral Fellow, Strategic University Program in Marine Cybernetics
1995-1997	Dr.Ing student. Norwegian Research Council Scholarship
1994	Teaching Assistant

## Teaching experience

2004-2016	TTK4100 Introduction to computerized control	NTNU	130	students
2002-2005	TTK7 Servomechanisms	NTNU	20	students
1999, 2004	TTK4105 Control Engineering	NTNU	250	students
2001-03	Experts in Team, a multidisciplinary and multifacultary project	NTNU	30	students
2001	TTK8 Nonlinear Motion control	NTNU	25	students
2001	TTK4150 Nonlinear Systems	NTNU	60	students
2000-2016	TK8103 Nonlinear Systems, PhD course	NTNU	25	students
1999	Calculus	Norwegian Air Force Academy	3	students

## Pedagogical training/experience

2002-	External examiner in the courses Control Engineering I and II at the Univeristy in Stavanger, and for the Space Tecnology course, project assignments and MSc Theses at Narvik University College.
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- 2004 Planning and teaching a new subject, TTK4100 Introduction to Computerized Control (Norw: Kybernetikk introduksjon) in the MSc programme in Engineering Cybernetics. The subject is mandatory for all first year students (approx 90 students/year), and the work included putting together a curriculum, writing new teaching material, [59], and creating new laboratory assignments and problem sets.
- 2004 PEDUP: One year course in university pedagogics at the Norwegian Univ. of Science and Technology.
- 2002 Co-author, with O. Egeland, of the textbook Modeling and simulation for control [2] which is used as textbook in the subject Modeling and Simulation, a 4th year subject in the MSc programme in Engineering cybernetics.
- 2001-03 Taken the initiative to, and carried out, the organization of three “villages” in the multifacultary project Experts in Team. The topics were 1) Compressor technology

### Awards and Appointments

- 2015 Best student paper award for the paper Ø.F. Auestad, T. Perez, J.T. Gravdahl, A. Sørensen and T.H. Espeland, Boarding Control System - for Improved Accessibility to Offshore Wind Turbines, In proceedings of the 10th IFAC Conference on Manoeuvring and Control of Marine Craft (MCMC'2015), Copenhagen, Denmark, August 24-26, 2015
- 2010 Best student paper award in the area of Signal processing, systems modeling and control at the 7th International Conference on Informatics in Control, Automation and Robotics (ICINCO 2010), Funchal, Madeira, Portugal, June 15-18, 2010 for the paper Grøtli, E. I., Chaillet, A., Panteley, E., Gravdahl, J. T., Robustness of ISS systems to inputs with limited moving average, with application to spacecraft formations.
- 2010 Finalist for Best Paper Award of the 11th International Conference on Control, Automation, Robotics and Vision (ICARCV), Singapore, 7 - 10 December 2010 for the paper P. Liljebäck, K.Y. Pettersen, Ø. Stavdahl and J.T. Gravdahl, ” Experimental Investigation of Fundamental Properties of Snake Robot Locomotion”, in Proc. the 11th International Conference on Control, Automation, Robotics and Vision.
- 2004 Appointed Senior member IEEE
- 2000 Awarded the 2000 IEEE Transactions on Control Systems Technology Outstanding Paper Award for the paper J.T. Gravdahl and O. Egeland, ”Centrifugal Compressor Surge and Speed Control”, IEEE Transactions on Control Systems Technology, Volume 7, Number 5, Pages 567-579, September 1999.
- 1995-97 PhD scholarship from the Norwegian Research Council

### Awards to students

- 2011 Kristian Jensen and Kaan Husby Yabar were awarded with the IBM Best Student Recognition Event for their MSc thesis Development, Implementation and Testing of Two Attitude Estimation Methods for Cube Satellites
- 2011 Pål Liljebäck, awarded *the 2011 ExxonMobil prize for best doctoral dissertation at NTNU* for his thesis: Modelling, Development, and Control of Snake Robots, NTNU thesis 2011:70
- 2007 Dr Bjørnar Bøhagen and PhD student Raymond Kristiansen both received best presentation awards at the 2007 American Control Conference
- 2005 MSc Øyvind Hegrenæs was awarded NFA's (National IFAC Member Organization) prize for best MSc Thesis within the field of Automatic control in Norway in the year 2004 for the thesis entitled ”Attitude Control by Means of Explicit Model Predictive Control, via Multi-Parametric Quadratic Programming”.
- 2005 Krøvel T.D was awarded the Young Lunar Explorers Award by the International Lunar Exploration Working Group (ILEWG) for his paper Krøvel T.D, K. Jerpetjøn and S. Ulrich, "The European Student Moon Orbiter Project", The 2005 International Lunar Conference on the Exploration and Utilization of the Moon, September 18-23, 2005.

- 2005 MSc Thomas R. Krogstad was awarded a sponsorship for his paper "Coordinated control of satellites: the attitude case" by ESA for the Student Participation Programme to the International Astronautical Congress 2005 in Fukuoka, Japan
- 2003 MSc students K.M. Fauske, F. Indergaard, and K. Svartveit were awarded with a Honorable Mention and a 2000\$ scholarship in the 11<sup>th</sup> Annual Frank J. Redd Student Scholarship Competition for the paper [60], presented at the 17th Annual AIAA/USU Conference on Small satellites, Logan, Utah, August, 2003

### **Graduated PhD students (10 as supervisor, 8 as co-supervisor)**

1. Bjørnar Bøhagen (2007), Active control of surge in centrifugal compressors.
2. Raymond Kristiansen (2008) (co-advised), Coordinated control of spacecraft formations,
3. Svein Hovland (2008), Model Reduction and Control in Computational Fluid Dynamics (CFD)
4. Thomas R. Krogstad (2010), Attitude synchronization in spacecraft formations Theoretical and experimental results
5. Esten Ingar Grøtli (2010), Robust stability and control of spacecraft formations
6. Pål Johan From (2010), Off-Shore Robotics: Robust and Optimal Solutions for Autonomous Operation
7. Pål Liljebäck (2011) (co-advised), Modelling, Development, and Control of Snake Robots
8. Rune Schlanbusch (2012) (co-advised), Optimal Control of Cluster Satellites for Improved Remote Sensing
9. Arnfinn Aas Eielsen (2012), Topics in Control of Nanopositioning Devices
10. Walter Caharija (2014) (co-advised), Integral Line-of-Sight Guidance and Control of Underactuated Marine Vehicles,
11. Espen Oland (2014) (co-advised), Nonlinear control of fixed-wing unmanned aerial vehicles
12. Øyvind F. Auestad (2015), The Boarding Control System: Modelling and control of a Surface Effect Ship for improved accessibility to offshore wind turbines
13. Ehsan Rezapour (2015) (co-advised), Model-based Locomotion Control of Underactuated Snake Robots
14. Eleni Kelasidi (2015) (co-advised), Modeling, Control and Energy Efficiency of Underwater Snake Robots,
15. Christoph Backi (2015), Modeling, estimation and control of freezing and thawing processes
16. Mutaz Tuffaha (2016), On the Management and Control of isolated Power Systems
17. Nur Uddin (2016), Active Compressor Surge Control System Using Piston Actuation: Theory, Design and Experiments
18. Signe Moe (2016) (co-advised) Guidance and Control of Robot Manipulators and Autonomous Marine Robots

### **PhD students in progress (5 as supervisor, 3 as co-supervisor)**

1. Michael Ragazzon, Nanoscale robotics in liquid environment.
2. Serge Gale, PhD-candidate in the NextGenRob KMB-program,
3. Trygve Utstumo, Automated detection and control of weeds
4. Mathias Hauan Arbo, Modeling and control of robotic handling of flexible materials
5. Linn Danielsen Evjemo, Additive manufacturing by robot
6. Tom Stian Andersen (co-advised), Nonlinear control of civilian autonomous aerial vehicles
7. Jørgen Sverdrup-Thygeson (co-advised), Swimming Robot Manipulators for Subsea IMR.
8. Anna Kohl (co-advised), Hyperredundant Underwater Manipulators and Next Generation Intervention-AUVs.

### **Post.docs**

1. Pål Johan From, 2010-2011
2. Marialena Vagia, 2011-2012 (Marie Curie/ERCIM) and 2012-2015 (KMB NexGenRob)
3. Arnfinn Aas Eielsen, 2012-2014
4. Signe Moe, 2017-19

## Visiting PhD students

1. Martin Ansbjerg Kjaer, Dept. of Automatic Control, Lund University, Sweden, autumn 2004.
2. Jan van Helvoirt, Eindhoven University of Technology, Mechanical Engineering, Control Systems Technology, the Netherlands, autumn 2006.
3. Alain Sarlette, University of Liège, Belgium, spring 2007

## Member of doctoral adjudication committee

1. 2000 Dag Kristiansen, Dept. of Engineering Cybernetics, NTNU
2. 2004 Bjørn Skåre, Dept. of Engineering Cybernetics, NTNU (administrator)
3. 2005 Martin Kjær (lic.tec), Lund Institute of Technology, Sweden
4. 2006 Glenn-Ole Kaasa, Department of Energy and Process Engineering, NTNU
5. 2009 Lars Alminde, Aalborg University, Denmark
6. 2009 Dagfinn Snarheim, Dept. of Engineering Cybernetics, NTNU (administrator)
7. 2011 Hege Langjord, Dept. of Engineering Cybernetics, NTNU (administrator)
8. 2013 Olof Sörnmo (lic.tec), Lund Institute of Technology, Sweden
9. 2013 Agus Ismail Hasan, Dept. of Engineering Cybernetics, NTNU (administrator)
10. 2013 Ehsan Peymani, Dept. of Engineering Cybernetics, NTNU (administrator)
11. 2013 Michael Hansen, Aalborg University, Denmark
12. 2013 Magnus C. Bjerkeng, Dept. of Engineering Cybernetics, NTNU (administrator)
13. 2014 Maryamsadat Tahavoris, Aalborg University, Denmark
14. 2014 Joakim Haugen, Dept. of Engineering Cybernetics, NTNU (administrator)
15. 2015 Filippo Sanfilippo, Dept. of Engineering Cybernetics, NTNU (administrator)
16. 2015 Olof Sörnmo, Lund Institute of Technology, Sweden
17. 2016 Hodjat Rahmati, Dept. of Engineering Cybernetics, NTNU (administrator)
18. 2016 Mohsen Vatani, Dept. of Engineering Cybernetics, NTNU (administrator)
19. 2016 Dennis J.W. Belleter, Dept. of Engineering Cybernetics, NTNU (administrator)
20. 2017 Kristian G. Hanssen, Dept. of Engineering Cybernetics, NTNU (administrator)

## Member of professor assessment/employment committee

- 2014 The University of Texas at Austin  
2014 Oslo and Akershus University College of Applied Sciences  
2014 The University of Newcastle x2  
2015 The University of Stavanger

## Member of evaluation committees

- 2017 PhD programme in mechatronics, University of Agder  
2016 Evaluator for the Czech Science Foundation  
2015 Master programme in satellite technology, Narvik University College, Norway  
2009 Evaluator for the MASTER programme of the Foundation for Polish Science

## Program committee work

- Member of the advisory committee for The International Symposium on Swarm Behavior and Bio-Inspired Robotics 2017 (SWARM2017), Kyoto, Japan, October, 2017
- Associate Editor for the IFAC World Congress, Toulouse, July 9-14, 2017
- Member of the Program Committee (PC), IEEE Conference on Robotics and Biomimetics (ROBIO 2016), December 3-7, 2016, Qingdao, China
- Member of the advisory committee for The International Symposium on Swarm Behavior and Bio-Inspired Robotics 2015 (SWARM2015), Kyoto, Japan, October 28-30, 2015

- Associate Editor for 1st IFAC Conference on Modelling, Identification and Control of Nonlinear Systems (MICNON-2015), Saint-Petersburg, RUSSIA, June 24-26, 2015
- Member of the international program committee, 4th International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH), Vienna, Austria, September 2-4, 2014
- Member of the international program committee, 3rd International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH), Reykjavik, Iceland, July 29-31, 2013
- Associate Editor for the 2012 IEEE International Conference on Robotics and Automation, May 14-18, 2012, RiverCentre, Saint Paul, Minnesota, USA
- Associate Editor (AE) for the Conference Editorial Board (CEB) of the IEEE Robotics and Automation Society for ICRA 2012
- Member of the International Program Committee (IPC), The 2011 Chinese Control and Decision Conference (CCDC), Mianyang, China, May 23-25, 2011
- Member of the Program Committee (PC), IEEE International Conference on Robotics and Biomimetics, ROBIO, Phuket Island, Thailand, December 7-11, 2011
- Member of the Program Committee (PC), IEEE International Conference on Robotics and Biomimetics, ROBIO, Tianjin, China, December 14-18, 2010.
- Member of Technical Program Committee (TPC) of The Eleventh International Conference on Control, Automation, Robotics and Vision, ICARCV 2010, Singapore, December 2010
- Member of the national organizing committee (NOC) and program committee (PC) for the 46th Scandinavian Conference on Simulation and Modeling, Trondheim, SIMS'05, October 13-14, 2005
- Co-organizer (with K.Y. Pettersen and H. Nijmeijer) of the Workshop on Group Coordination and Cooperative Control, Tromsø, May 28-30, 2006

## Dissemination

- "Budget satellites take the cube route into space" by Will Knight, New Scientist, 8. October, 2005, issue 2520.
- "Kyb-ekspertise mellom to permer", interview by Arne Asphjel, Universitetsavisa, 1.2.05,
- "Gjør det umulige mulig", interview by Tore Oksholen, Gemini, no.4 2007
- "Kybernetikk sparer penger", interview by Tore Oksholen, www.forskning.no, 31.10.2007,
- "Kybernetikk sparer penger", interview by Tore Oksholen, 6.11.07, Universitetsavisa,
- "Kan en robot gjøre jobben til en bie?", Ekko, NRK P2 [Radio] 2016-03-09

## Patents

2010	J. T. Gravdahl and N. Uddin, Industrial Compressor System, Patent application.
2001	J.T. Gravdahl, S.O. Vatland and H. Devold, NO313926, "Active Compressor Stability Control"

## University/Industrial Research projects

2015-2020	<b>SFI Manufacturing.</b> Funding for 4 PhD-students and 2 years of post.doc on robotics
2013-2016	<b>Nanopositioning,</b> Funding from NTNU/IME Lighthouse project on robotics for one PhDstudent
2011-2014	<b>KMB project NextGenRob,</b> Funding for 1 PhD-student and 2 years of post.doc.
2010-2013	<b>DANTEQ,</b> KMB project, funded by Sintef Aquaculture and fisheries. Funding for 1 PhD-student.
2010-2013	<b>Improvedo,</b> KMB project, funded by NFR, Rolls Royce Marine and Sintef Aquaculture and fisheries. Funding for 1 PhD-student.
2009-2013	<b>Strategic university program (SUP) on Control, Information and Communication Systems for Environmental and Safety Critical Systems</b>
2008-2012	<b>SIEMENS-NTNU cooperative project.</b> Control of compressors, funding for 1 Adjunct professor, 1 PhD-student and laboratory.

- 2008-2014 **Nanopositioning**, Funding from NTNU for one PhD student, 2 years of post.doc training, and a 1.6 MNOK grant for lab.equipment
- 2007- **GEMINI Centre**. Member of the NTNU/SINTEF Gemini centre *Advanced Robotics* 2007. The centre was established in 2007.
- 2006 -2010 **TAIL, BIP project**. Project: Robotics technology for supplementing and extending human inspection and intervention capabilities. Project partners: ABB, IBM, Statoil, Aker Kværner Offshore Partner, IFE, Marintek and NTNU. 2006-2009.
- 2006 **AUVSAT** Underwater vehicles for synchronization of formations of advanced autonomous underwater vehicles (AUVs) and satellites. Budget 1.4MNOK.
- 2004-2009 **Strategic University Program on Computational Methods in Nonlinear Motion Control**. The program comprises 13 PhD students and 3 Post.doc researchers. I supervise 3 of the PhD students. Total SUP budget: 26.6 MNOK
- 2004-2006 **Compressor Control Laboratory**, Funding from NTNU, Statoil/Gas Technology Centre and the research council. Total Budget: 0.6 MNOK.
- 2003- **Student Space Exploration & Technology Initiative (SSETI)** Supervisor for the NTNU-team working on ADCS on this European Space Agency (ESA) project. Partners: SSETI, ESA, Norwegian Space centre, HiN, Kongsberg D&A
- 2001 **Load-sharing for Compressors (ABB)**. Post-doctoral research financed by ABB. Analysis and simulation of a new concept for load-sharing of compressors.
- 2001-2004 **Ncube I & II-Norwegian student satellites**  
Supervisor for the Attitude Determination and Control System (ADCS) subtask of the Ncube projects. Partners: Norwegian Space centre, Andøya Rocket Range, NAROM, NTNU, HiN, NHL. Industrial partners: FFI, Kongsberg D&A and Telenor.
- 1999-2001 **Active control of compressors**. Post-doctoral research financed by ABB Industry AS.

## Editor

- Associate Editor for IFAC Mechatronics, Elsevier, 2016-
- Guest editor for Modeling Identification and Control, No. 2, 3 and 4, vol.27, 2006. Special issues in connection with the 46th Scandinavian Conference on Modeling and Simulation. Editorial, Modeling, Identification and Control, pp.77, vol. 27, no.2, 2006
- Editorial board member for the journal Simulation Modelling Practice and Theory, Elsevier, 2007-2011

## Conference chairman

Session Chairman at:

- 36th IEEE Conference on Decision and Control, San Diego, USA, 1997 (36th CDC)
- 39th IEEE Conference on Decision and Control, Sydney, Australia, 2000 (39th CDC)
- 40th IEEE Conference on Decision and Control, Orlando, USA, 2001 (40th CDC)
- 41st IEEE Conference on Decision and Control, Las Vegas, USA, 2002 (41st CDC)
- 46th Scandinavian Conference on Modeling and Simulation, Trondheim, Norway, 2005 (46th SIMS)
- International Conference on Robotics and Automation (ICRA), Anchorage, USA, 2010
- ICCAS 2011, Gyeonggi-do, Korea, October 26-29, 2011
- IEEE/ASME International Conference on Advanced Intelligent Mechatronics, 2013, Wollongong, Australia
- IFAC World Congress, Cape Town, South Africa, 2014
- IEEE Multiconference on Systems and Control, Antibes, France, 2014

## Membership in Academic and Professional Organizations and Committee

- 2016- Member of [IFAC Technical Committee on Mechatronic Systems](#)
- 2012- Member of [IFAC Technical Committee on Nonlinear Control System](#)
- 1993- [IEEE: Institute of Electrical and Electronics Engineers](#), Control Systems Society and Robotics & Automation Society. (Senior member since 2004)
- 1992- Member of the [Norwegian Society of Chartered Engineers \(Tekna\)](#)

## **Reviewer**

*Reviewer of books for*

Springer Verlag

Wiley

*Reviewer for Journals:*

Acta Astronautica

Aerospace Science and Technology

Aircraft Engineering and Aerospace Technology

AIAA Journal of Guidance, Control, and Dynamics

ASME Journal of Dynamics, Measurement and Control

ASME Journal of Mechanisms and Robotics

Automatica

Biosystems Engineering

Chinese Journal of Aeronautics

Control and Cybernetics

Control Engineering Practise

Engineering Applications of Artificial Intelligence

European Journal of Control

IEE Proceedings: Control theory and applications (and IET Control Theory & Applications)

IEEE Control Systems Magazine

IEEE Transactions on Automatic Control

IEEE Transactions on Automation Science and Engineering

IEEE Transactions on Control Systems Technology

IEEE Transactions on Fuzzy Systems

IEEE Transactions on Nanotechnology

IEEE Transactions on Robotics

IEEE/ASME Transactions on Mechatronics

International Journal of Advanced Robotic Systems

International Journal of Control

International Journal of Robust and Nonlinear Control

International Journal of Systems Science

ITB Journal

Journal of Aerospace Engineering

Journal of Electronic Science and Technology

Journal of Rotating Machinery

Journal of Sound and Vibration

Journal of the Astronautical Sciences

Modeling, Identification and Control

Proc. of the Inst. of Mechanical Engineers, Part I, Journal of Systems and Control Engineering

Sensors & Actuators: A. Physical

Simulation Modelling Practice and Theory

Systems and Control Letters

*Reviewer for Conferences:*

ASME Dynamic Systems and Control Conference (DSCC)

ASME Turbo Expo

IEEE Conference on Decision and Control (CDC)

IEEE Conference on Control Applications (CCA)

IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM)

IEEE Multi-conference on Systems and Control (MSC)

IFAC Symposium on Mechatronic Systems



IFAC SYSID  
IFAC Workshop on Automatic Control in Offshore Oil and Gas Production (ACOOG)  
IFAC Symposium on Automatic Control in Aerospace (ACA)  
IFAC Conference on Advances in PID Control  
IFAC Safeprocess  
IFAC World Congress  
American Control Conference (ACC)  
European Control Conference (ECC)  
Scandinavian Conference on Modeling and Simulation (SIMS)  
Mediterranean Conference on Control & Automation (MED)  
International Conference on Control, Automation, Robotics and Vision (ICARCV)  
International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH),  
International Conference on Robotics and Automation (ICRA)  
International Conference on Intelligent Robots and Systems (IROS)  
Virtual Control Conference (VCC)

### **Supervision of MSc students**

96 MSc graduated (as of 2016). 28 of the graduated MSc students have had their main results published at one or several international conferences or in international journals. Detailed list at [http://www.itk.ntnu.no/ansatte/Gravdahl\\_Jan.Tommy/MSc.html](http://www.itk.ntnu.no/ansatte/Gravdahl_Jan.Tommy/MSc.html)