

Invited scientific talks/keynotes by Jim Torresen

- “Embedding Intelligence in Robots Through Interdisciplinary Collaboration” **invited talk at Kyoto University**, Japan, 14 December 2025
- Invited presentation and participation in the “INDUSTRIAL AI Panel on Global Perspectives on AI Development and Policy”, at the **INDUSTRIAL AI FORUM**, Synopsys HQ, Sunnyvale, US. 6 December 2025.
- “Industrial AI Center Partner Presentation”, **invited talk at the INDUSTRIAL AI FORUM** (closed-Door Meeting), Synopsys HQ, Sunnyvale, US. 5 December 2025.
- “How should Robot Assistants behave”, **invited talk at the IAS-FRIS Symposium on Social Robots and Ethical Design**, Tohoku University, Sendai, November 6, 2025.
- “Intelligent Robotics in (Home) Healthcare”, **invited talk at the conference Intelligent Health – Future Rehabilitation**, Oslo, Norway, 22 May 2025
- "Techno-Ethical Considerations when Applying Machine Learning in Real-world Systems" **Keynote at the 2025 10th International Conference on Machine Learning Technologies (ICMLT 2025)**", Helsinki, Finland, 24.05.2025
- “Ethics Integrated in Human-Robot Interaction Research”, **IAS-FRIS symposium 2024**, Sendai, Japan, 2024-11-14
- “Interdisciplinary AI and robotics research spanning from psychology to law”, **#frAIday talk at TAIGA** at Umeå University, 11th October 2024.
- “Ethical considerations for robots supporting independent living of older people”. **EMERGENCE Webinar Series**: Safety, regulatory and ethical considerations for the integration of assistive robotics (Webinar 3) 2024-09-11
- “AI Ethics – Challenges and Opportunities" **IEEE World Congress on Computational Intelligence (WCCI)/FUZZ-IEEE keynote**, Yokohama, Japan, 4 July, 2024
- “From Adaptation of the Robot Body and Control Using Rapid-Prototyping to Human–Robot Interaction with TIAGo” **Guest lecture at Tohoku University**, Tohoku Univ, Japan, 3 June 2024
- “How human-like and interactive would we want a robot assistant to be?” **invited talk at the ICRA2024 workshop: Human-Robot Companionship for Healthcare and Wellness: Which Form of Companionship for What Type of Care?** Yokohama, Japan, 13 May 2024,
- “Sensing and Understanding Humans by a Robot – and vice versa”, **invited talk at the 13th IFIP International Conference on Intelligent Information Processing**, Shenzhen, China, 4 May, 2024
- Future Intelligent and Adaptive Robots in Real-World Environments”, **invited talk at Workshop on Futures of Computational Intelligence**, SUSTech, Shenzhen, China, 18-19 November 2023
- “Human Intuition and its Impact on Human–Robot Interaction Regarding Safety and Accountability” **invited talk at Workshop on Interpretable AI in human-machine interaction**, 23-24 October 2023, Chalmers University of Technology, Gothenburg, Sweden
- “Robots-assistants that Care about Privacy, Security and Safety”, **invited talk at the Geriatrics workshop at IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2023**, Detroit, USA, 1 October 2023
- “From Adapting Robot Body and Control Using Rapid-Prototyping to Human–Robot Interaction with TIAGo”, **guest lecture at Imperial College**, London, UK, 25 July 2023

- “From Adapting Robot Body and Control to Human–Robot Interaction”, **guest lecture at the University of Massachusetts Amherst, US** (UMass Amherst), 11 January 2023
- Jim Tørresen explains robots (in Norwegian), **NORA podcast, episode 6**, 13 Dec 2022
- “Introduction to Research Visit to University of Oslo in Norway”, **guest lecture in Nagoya University, Japan**, 21 October 2022
- “Introduction to Research Visit to University of Oslo in Norway”, **guest lecture in Tsukuba University, Japan**, 18 October 2022
- “Multi-Modal Sensing for Care Robots for Older People”, **First Symposium on Geriatrics, Garmisch-Partenkirchen – Germany**, 20 June 2022
- “Research Ethics in AI and Robotics”, **dScience lunch seminar series (UiO)**, 5 May 2022
- “Ethical Perspectives of Robotics and AI - How to develop preferable system?”, a **guest lecture in the Computer and Society course at UFRGS, Brazil** 20 April, 2022 (online)
- “Research on health-related treatment and care technology – A technical and ethical view”, **Department of Informatics, UiO research seminar**, 22 March 2022
- “Sensing, acting and adapting in the real world”, **dScience lunch seminar series (UiO)**, 3 Feb 2022
- “How to achieve ethical artificial intelligence (AI) research and development?”, **NFEA Artificial Intelligence and Machine Learning Conference 2021**, Oslo, 27 October, 2021
- “INTROMAT: INtroducing personalized TRreatment Of Mental health problems using Adaptive Technology.” Guest lecture in the **NTNU course IT6104 - Database technology for healthcare workers**, (online), 16 April 2021.
- "Robots and artificial intelligence for use in treatment and rehabilitation", guest lecture at **Sunnaas Rehabilitation Hospital**, Oslo (online), 24 March 2021
- «Kunstig intelligens – allsidig i metoder og anvendelser», the **SW2021 conference** organised by «Den Norske Dataforening (DND)», 11 February 2021.
- “Ethical Consideration in Robotics and Intelligent Systems Research”, **Norwegian Artificial Intelligence Research Consortium (NORA) Webinar**, 6 November 2020.
- “Sensing Human State with Application in Older People Care and Mental Health Treatment”, **AI4Health Lecture Series**; Université du Luxembourg, 10 March 2020
- “A collaboration journey to Japan that started for more than 25 years ago”, **Norway-Japan Academic Network**; Oslo, 26 February 2020
- “Intelligent Robots and Systems for Foundational and Applied Healthcare Research”, **Guest lecture at Nagoya University**; 28 January 2020
- “Interdisciplinary Research Collaboration in Rhythm, Time and Motion.” **Guest lecture at Toyohashi University of Technology, Japan**; 27 January 2020
- “AI Ethics: How to achieve ethically good artificial intelligence research and development.” **Chalmers AI Ethics seminar series**; Chalmers University of Technology, Gothenburg, Sweden, 7 January 2020
- “Adaptive Robot Body and Control for Real-World Environments”. co-presenters: Kyrre Glette and Kai Olav Ellefsen, ***JPL Robotics Section seminar***; Pasadena, US, 28 October 2019
- “Intelligent, Adaptive Robots in Real-World Scenarios”, co-presenters: Kyrre Glette and Kai Olav Ellefsen. **UBER AI Labs Seminar**; San Francisco, US, 25 October 2019

- “Intelligent Robots and Systems in Real-World Environment”, guest lecture at **Western Norway University of Applied Sciences**, Bergen, Norway, 22 October 2019
- “Sensing Human State with Application in Older People Care and Mental Health Treatment”, keynote at **2nd Latin American Workshop on Computational Neuroscience**, LAWCN, São João del-Rei, Brazil, 18-20 September, 2019.
- “Introduction to Different Challenges in Ethical AI and Possible Ways of Addressing Them” keynote at **IJCNN (International Joint Conference on Neural Networks) workshop “Ethical AI Challenges”**, Budapest, Hungary, 19 July 2019
- “Design and Control of Robots for Real-World Environment”, **Eindhoven University of Technology**, Netherlands, invited talk at the opening of their: The Future of Social Robotics – opening of the Social Robotics Lab, 28 June 2019
- “Ethics and artificial intelligence in healthcare”, at the conference **Artificial intelligence in healthcare** in Bodø, Norway, 18-19 June 2019
- “Future and Ethical Perspectives of Robotics and AI”, guest lecture in course “Mind and Machines” at UFRGS, Porto Alegre, Brazil, 29 May 2019
- “Intelligent and Adaptive Robots in Real-World Environment”, **SAINT Workshop on Self-aware and Autonomous Systems**, Southern University of Science and Technology (SUSTech), Shenzhen, China, 5-6 May 2019
- “Robots and mobile apps solving problems better with artificial intelligence”, Norwegian Artificial Intelligence Research Consortium (NORA) kick-off for partners, Oslo, April 1, 2019
- “NENT – research ethics perspectives in artificial intelligence”, annual conference for the **National research ethics committees (FEK)**, Oslo, 28 March 2019
- “AI for Robots Interacting with Humans” at the **House of CAIR conference at the University of Agder** in Grimstad, Norway, 7 February 2019
- “Supporting Older People with Robots for Independent Living “, **3rd International Workshop on Advanced Algorithms and Control Engineering (IWAACE 2019)**, in Sanya, China, January 18-19, 2019
- "Making Robots Adaptive and Preferable to Humans”, guest lecture **Univ. of Hertfordshire**, UK, 7 Jan 2019
- “UiO Visit to UFRJ – An overview of research”, guest lecture **Universidade Federal do Rio de Janeiro (UFRJ)**, Brazil, 6 Des 2018
- “Evolutionary Robotics: Automatic design of robot bodies and control”, together with Kai Olav Ellefsen (UiO) guest lecture (online) in "CMP166 Evolutionary Dynamical Systems" course at **UFRGS**, Porto Alegre, Brazil, 24 October 2018.
- "Biologically inspired computing for problem solving”, the **Norwegian Geotechnical Institute seminar on Machine learning**, Oslo, 22 Oct 2018
- “Artificial Intelligence Applied for Real-World Systems”, guest lecture **Brno University of Technology**, Czech Republic, 7 October, 2018
- “Developing Robot Companions for Elderly”, **2018 China (Shenyang) World Congress of Robotics (WCR 2018)**, 1 September 2018
- “Intelligent Systems for Medical and Healthcare Applications”, **Simula@OsloMet seminar series**, 23 August 2018.

- “Equipping Systems with Forecasting Capabilities”, **Universidade Federal do Rio Grande do Sul (UFGRS)**, Porto Alegre, Brazil, 12 July, 2018
- ”Introducing Mental Health through Adaptive Technology via Sensor Data and Machine Learning: The INTROMAT project.”, **University of Michigan**, 5 June 2018.
- “Ethical Robots and Autonomous Systems”, **Autonomy Day**, OsloMet, 3 May 2018
- “Artificial Intelligence – State-of-the-art”, **Research Council of Norway**, Lysaker, Oslo, 5 March 2018.
- “Intelligent Machines – Opportunities and Challenges”, **Kyushu University**, Japan, 5 October, 2017
- “Artificial Intelligence and examples of Real-world Applications”, **National Institute of Informatics**, Tokyo, Japan, 3 October, 2017
- ”Artificial Intelligence by Nature Inspired Computing”, **Agri-Robotics Summer Camp**, Ås, Norway, 4 August 2017
- “Sensing and Reasoning Technology Applied within Mental Health Treatment and Elderly Care Robot Companions”, **Graz University of Technology**, Austria, 30 June 2017.
- ”Robotics activity at Robotics and Intelligent Systems Group University of Oslo”, **Institute For Robotics And Mechatronics at Joanneum Research**, Klagenfurt, 29 June 2017.
- “Artificial intelligence - a human technology?” Invited talk at **TEDx Oslo**, May 3, 2017.
- “**Artificial Intelligence – What is it and what can it be applied to?** Thematic meeting about Artificial Intelligence, **The Norwegian Society of Engineers and Technologists (NITO)**, Oslo, 27 April 2017
- “Making Systems Intelligent by Biologically Inspired Computing”, Invited talk at **Brazilian Institute of Robotics (BIR)**, SINAI CIMATEC, Salvador, Brazil, April 6, 2017.
- “Opportunities and Challenges with Artificial Intelligence”, Invited talk at **Universidade Federal do Rio Grande do Sul (UFGRS)**, Porto Alegre, Brazil, April 4, 2017.
- “Introduction to Machine Learning for Problem Solving”. Invited talk at **Norwegian Geotechnical Institute (NGI)**, Oslo, 10 January 2017
- “Making Technology Adaptive by Biologically Inspired Computing”, Invited talk at **Hong Kong University**, 24 October 2016.
- “Unleashing Artificial Intelligence in the Real World”, School of Computer Science, Invited talk at **University of Manchester**, UK, 5 October 2016.
- “Smartphone Analysis of Human Behaviour for Interactive Music Systems”, **4th Conference of the European Society for Research on Internet Interventions (ESRII)**, Bergen, 22-23 September 2016
- “Artificial Intelligence in Autonomous Systems”, Norwegian Society of Automatic Control (NFA) *Conference on Autonomy*, Stavanger, 16-17 May, 2016
- “Artificial intelligence and evolutionary algorithms analysis and solution tools”, Norwegian Society of Automatic Control (NFA) **Conference on decision support and alarm systems**, Oslo, 4 - 5 November 2015
- “Artificial Intelligence: Can machines become as intelligent as humans?” Invited talk at board meeting at the **Norwegian Board of Technology**, Oslo, 19 June 2015
- “Robotics in IoT”, **HiPEAC Computing Systems Week**, Oslo, May 2015
- “Introduction to Artificial Intelligence”, **Shell Norway**, 28 October 2014.
- “Introduction to Run-time Evolvable and Reconfigurable Hardware”, Guest lecture in course Advanced reconfigurable Systems (ARS, code 32437) 22 Nov 2012 at **Universidad Autónoma de Madrid**, Spain.

- “Self-aware and Self-expressive Active Music Systems”. **Awareness Summer School (AWASS 2012)**, 10-16th June 2012, Edinburg, Napier University
- “Can Run-time Reconfigurable Hardware be more Accessible?” Invited talk at **2011 International Conference on Engineering of Reconfigurable Systems and Algorithms (ERSA’11)**, July 18, 2011, Las Vegas, US.
- “Exploring Bio-Inspired Computing for Robotics and Intelligent Systems”, Invited talk at **University of Vermont**, US, April 8th, 2011.
- “Music Technology based on Robotics and Intelligent Systems”, *Invited talk* at **McGill University**, Canada, April 7th, 2011.
- “Making Run-time Reconfigurable Hardware more Useful”, *Invited talk* at **University of Southern California (USC)**, LA, CA. January 28, 2011.
- “Robotics and Intelligent Systems Research at University of Oslo”, **Jet Propulsion Laboratory/California Institute of Technology**, Pasadena, CA, January 26, 2011.
- “Robotics at University of Oslo”. **The Norwegian Robotics Workshop**, Trondheim, Norway, 30 Nov 2011.
- “Robotics and Intelligent Systems research group (ROBIN at UiO)”, *Invited talk* at Cornell Computational Synthesis Laboratory. **Cornell University**, August 30th, 2010.
- “A New Project to Address Run-Time Reconfigurable Hardware Systems” *Invited participant/speaker* at Dagstuhl Seminar 10281: Dynamically Reconfigurable Architectures, Schloss Dagstuhl, Germany, July 11 – 16, 2010.
- “Adaptable System on Chip”, Keynote at **Reconfigurable Communication-centric Systems on Chip Conference (ReCoSoC’10)**. May 17-19, 2010, Karlsruhe, Germany.
- “Evolutionary Computing Applied to Hardware and Robotics”. *Invited talk* at Faculty of Information Technology, **Brno University of Technology (BUT)**, Brno, Czech Republic, January 20th, 2009.
- ”Adapting Systems by Evolving Hardware”. *Invited talk* in Computer Systems Colloquium (EE380), Stanford University. January 23rd, 2008.
- Research in Robotics & Intelligent Systems Group, *Invited talk* at Cornell Computational Synthesis Laboratory. **Cornell University**, January 20th, 2008
- “Evolutionary Computing and its Application to Signal and Image Classification in Hardware.” Invited talk at **Fudan University**, China, September 17th, 2007.
- “A Survey on Parts Obsolescence Challenges for the Electronics Industry”, **Component Obsolescence Group International Conference (COG’07)**, UK.
- “Evolvable Hardware Supplementing the Hardware Designer”. **Invited talk to First Workshop on Topics of the nEUro-IT.net Roadmap**, Antwerp, 21/22 April 2006.
- “Context Switching Reconfigurable Logic”. Dagstuhl Invited participant/speaker at **Dagstuhl Seminar 03301: Dynamically Reconfigurable Architectures**, Schloss Dagstuhl, Germany, July 25-25, 2003.

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