

Konstantinos Nizamis
Assistant Professor in Multidisciplinary Design
Design, Production and Management



Personal profile

My name is Kostas Nizamis, born in 1988 in Kavala, Greece. I am since 2019 an Assistant Professor in Multidisciplinary Design at the Design, Production, & Management (DPM) department at the University of Twente. My educational background includes a Master of Engineering in Electrical and Computer Engineering from Democritus University of Thrace in Xanthi, Greece, followed by a Master of Science in Biomedical Engineering from the University of Twente. I completed my Ph.D. research in Biomechanical Engineering at the same institution.

Through my work, I strive to contribute to the advancement of knowledge and practice in Systems Engineering, with a focus on **multidisciplinary technical communication**, to aid the development of innovative solutions that positively impact society.

I am currently serving as the vice-secretary of the Optimus Association (<https://www.utwente.nl/en/et/dpm/optimus/>) of the DPM department of the University of Twente, and as Director of Transfer for the Non-Profit Organization Authentia (If interested visit our **website** or our pages on **Facebook** and **LinkedIn!**).

Qualifications

PhD, Symbionics 1.3: Intention Amplifying in Hand Orthoses

3 Nov 2014 → 28 Feb 2019

Award Date: 20 Jun 2019

Master, Switching Proportional EMG control of a 3D Endpoint Arm Support for People with Duchenne Muscular Dystrophy, University of Twente

Award Date: 23 Apr 2015

Master, Study and development of an electronic system for creating an adaptive railroad network using methods inspired by nature, Democritus University of Thrace

Award Date: 19 Jul 2012

Employment

Assistant Professor

Systems Engineering & Multidisciplinary Design

University of Twente

1 Mar 2024 → present

Member

IEEE

New York, United States

1 Sept 2021 → present

Director of Transfer

Authentia Foundation

Netherlands

1 Sept 2020 → present

Research output

SASER in Practice: Early Insights from Two Case Studies Connected to Industry

Lenssen, J. A., Ahmed, U., Nizamis, K., Pereira Pessoa, M. V. & Bonnema, G. M., 3 Apr 2024, In: INCOSE International Symposium. 33, S1, p. 26-38

More than 10 years of industry 4.0 in the Netherlands: an opinion on promises, achievements, and emerging challenges

Martinetti, A., Nizamis, K., Chemweno, P. K., Goulas, C., van Dongen, L. A. M., Gibson, I., Thiede, S., Lutters, E., Vaneker, T. H. J. & Bonnema, G. M., 3 Nov 2024, In: International Journal of Sustainable Engineering. 17, 1, p. 1-12 12 p.

Using A Spiral Approach To Facilitating Engineering Research And Education In Real Industry Settings
Pereira Pessoa, M. V. & Nizamis, K., 1 Oct 2023.

Involving Non-Technical Stakeholders in System Architecture Design; a Case-Study on the Cleaning Industry
van Zijl, R., Raub, T., van Rompay, T. J. L., Nizamis, K. & Bonnema, G. M., 1 Jul 2023, *33rd Annual INCOSE International Symposium 15–20 July 2023 — Honolulu, HI*. p. 998-1012 14 p. (INCOSE International Symposium; vol. 33, no. 1).

A novel model for the material selection of smart objects for hand-rehabilitation: a case study+
Bos, M. I., Karahanoğlu, A., Haarman, J. & Nizamis, K., Jul 2023, *Proceedings of the Design Society, Volume 3: ICED23*. Vol. 3. p. 353-363 11 p. (Proceedings of the Design Society).

Engineering complexity beyond the surface: discerning the viewpoints, the drivers, and the challenges
Garza Morales, G. A., Nizamis, K. & Bonnema, G. M., Jul 2023, In: *Research in engineering design*. 34, 3, p. 367-400 34 p.

Transdisciplinarity as a Learning Challenge: Student Experiences and Outcomes in an Innovative Course on Wearable and Collaborative Robotics
Kilic-Bebek, E., Nizamis, K., Vlutters, M., Bebek, O., Karapars, Z. G., Ünal, R., Yilmaz, D. & Ugurlu, B., Jun 2023, In: *IEEE transactions on education*. 66, 3, p. 263-273

Why is there complexity in engineering? A scoping review on complexity origins
Morales, G. A. G., Nizamis, K. & Bonnema, G. M., 25 May 2023, *2023 IEEE International Systems Conference (SysCon)*. 8 p.

Real-time myoelectric control of wrist/hand motion in Duchenne muscular dystrophy: A case study
Nizamis, K., Ayvaz, A., Rijken, N. H. M., Koopman, B. F. J. M. & Sartori, M., 6 Apr 2023, In: *Frontiers in robotics and AI*. 10, 1100411.

NeuroSuitUp: System Architecture and Validation of a Motor Rehabilitation Wearable Robotics and Serious Game Platform
Mitsopoulos, K., Fiska, V., Tagaras, K., Papias, A., Antoniou, P., Nizamis, K., Kasimis, K., Sarra, P.-D., Mylopoulou, D., Savvidis, T., Praftsiotis, A., Arvanitidis, A., Lyssas, G., Chasapis, K., Moraitopoulos, A., Astaras, A., Bamidis, P. D. & Athanasiou, A., 20 Mar 2023, In: *Sensors*. 23, 6, 3281.

Development of Interactive Hand Rehabilitation Tools Based on Activities of Daily Living
Hover, Q. R. M., Karahanoğlu, A., Nizamis, K., Kottink, A. I. R., Rietman, J. S. & Haarman, J. A. M., 26 Feb 2023, *TEI 2023 - Proceedings of the 17th International Conference on Tangible, Embedded, and Embodied Interaction*. 45

Using a spiral approach to facilitate engineering research and education embedded in real industry settings
Pessoa, M. V. P. & Nizamis, K., 2023, *SEFI 2023 - 51st Annual Conference of the European Society for Engineering Education: Engineering Education for Sustainability, Proceedings*. Reilly, G., Murphy, M., Nagy, B. V. & Jarvinen, H.-M. (eds.). Societe Europeenne pour la Formation des Ingenieurs (SEFI), p. 3223-3230 8 p.

Evaluating 3D printed sEMG electrodes with silver ink traces using in-situ impedance measurements
Schouten, M., van de Maat, P., Nizamis, K. & Krijnen, G., 8 Dec 2022, *2022 IEEE Sensors*. Piscataway, NJ: IEEE, (IEEE Sensors; vol. 2022).

Neurorehabilitation Through Synergistic Man-Machine Interfaces Promoting Dormant Neuroplasticity in Spinal Cord Injury: Protocol for a Nonrandomized Controlled Trial
Athanasiou, A., Mitsopoulos, K., Praftsiotis, A., Astaras, A., Antoniou, P., Pandria, N., Petronikolou, V., Kasimis, K., Lyssas, G., Terzopoulos, N., Fiska, V., Kartsidis, P., Savvidis, T., Arvanitidis, T., Chasapis, K., Moraitopoulos, A., Nizamis, K., Kalfas, A., Iakovidis, P. & Apostolou, T. & 2 others, Magras, I. & Bamidis, P., 13 Sept 2022, In: *JMIR research protocols*. 11, 9, e41152.

Introduction to robotics for medical professionals

Nizamis, K., Vlutters, M. & Vander Poorten, E., 1 Sept 2022, *Open Educational Resources on Enabling Technologies in Wearable and Collaborative Robotics*. p. 127 - 166 40 p.

Smart daily-used objects for hand rehabilitation after stroke

Hover, Q. R. M., Karahanoglu, A., Nizamis, K. & Haarman, J. A. M., 26 Jul 2022.

Transdisciplinary Challenge-based Learning: Multi-Stakeholder Co-creation Combining Engineering Technology and Social Sciences

Nizamis, K., van Dalen, M., van Dun, D. H., Hermsen, E. M. P. & Sullivan, B. P., 11 Jul 2022.

Gr!pp: Integrating Activities of Daily Living into Hand Rehabilitation

Stefess, F., Nizamis, K., Haarman, J. & Karahanoglu, A., 13 Feb 2022, *TEI 2022: Proceedings of the 16th International Conference on Tangible, Embedded, and Embodied Interaction*. Association for Computing Machinery, 6 p. 3505572. (ACM International Conference Proceeding Series).

Spiral Approach for SE Research (SASER): mating research to practice

Bonnema, G. M., Pereira Pessoa, M. V. & Nizamis, K., 2022, (Accepted/In press) *Complex systems design & management*.

Interdisciplinary challenge-based learning: science to society: Science to Society

Shakila, N. U., Nizamis, K., Poortman, C. L. & van der Veen, J. T., 30 Nov 2021, *Proceedings - SEFI 49th Annual Conference: Blended Learning in Engineering Education: Challenging, Enlightening - and Lasting?*. Heiss, H.-U., Jarvinen, H.-M., Mayer, A. & Schulz, A. (eds.). Societe Europeenne pour la Formation des Ingenieurs (SEFI), p. 1491-1499 9 p. (Proceedings - SEFI 49th Annual Conference: Blended Learning in Engineering Education: Challenging, Enlightening - and Lasting?).

Tutor guidelines: How to make your life easier and have fun while being a tutor

Nizamis, K., 4 Nov 2021, 16 p.

Redesign of the High-Tech Human Touch Minor From Idea to Prototype

Nizamis, K., 31 Oct 2021, 125 p.

Redefining Safety in Light of Human-Robot Interaction: A Critical Review of Current Standards and Regulations

Martinetti, A., Chemweno, P. K., Nizamis, K. & Fosch Villaronga, E., 27 Jul 2021, In: *Frontiers in chemical engineering*. 3, 666237.

Implementing Ethical, Legal, and Societal Considerations in Wearable Robot Design

Kapeller, A., Felzmann, H., Fosch Villaronga, E., Nizamis, K. & Hughes, A. M., 21 Jul 2021, In: *Applied Sciences*. 11, 15, 6705.

Affect detection in rehabilitation using wearable robotics, multiple biosensors and serious gaming: a concept using the NeuroSuitUp platform

Athanasiou, A., Antoniou, P., Pandria, N., Astaras, A., Nizamis, K., Mitsopoulos, K., Praftsiotis, A., Arvanitidis, T., Apostolou, T., Magras, I. & Bamidis, P., 9 Jul 2021.

Converging Robotic Technologies in Targeted Neural Rehabilitation: A Review of Emerging Solutions and Challenges

Nizamis, K., Athanasiou, A., Almpani, S., Dimitrousis, C. & Astaras, A., 16 Mar 2021, In: *Sensors (Switzerland)*. 21, 6, 37 p., 2084.

Ready, trainer...one*! discovering the entanglement of adaptive learning with virtual reality in industrial training: a case study

Abbas, Y. (Corresponding Author), Martinetti, A., Nizamis, K., Spoolder, S. & van Dongen, L. A. M., 2021, In: *Interactive learning environments*. 30 p.

Wearable Robotic Exoskeletons: A Socio-Philosophical Perspective on Duchenne Muscular Dystrophy Research
Kapeller, A., Nagenborg, M. H. & Nizamis, K., 1 Oct 2020, In: Paladyn. 11, 1, p. 404-413 10 p.

Discussing Modernizing Engineering Education through the Erasmus + Project Titled "Open Educational Resources on Enabling Technologies in Wearable and Collaborative Robotics (WeCoRD)

Kilic-Bebek, E., Nizamis, K., Karapars, Z., Gokkurt, A., Unal, R., Bebek, O., Vlutters, M., Vander Poorten, E. B., Borghesan, G., Decré, W., Aertbeliën, E., Borisova, O., Borisov, I., Kolyubin, S. & Ugurlu, B., 9 Sept 2020.

Neurorobotics: Review of Underlying Technologies, Current Developments and Future Directions

Dimitrousis, C., Almpani, S., Stefanias, P., Veneman, J., Nizamis, K. & Astaras, A., May 2020, *Neurotechnology: Methods, advances and applications*. Athanasiou, A., De Albuquerque, V. H. & Ribeiro, S. (eds.). 1st ed. The Institution of Engineering and Technology

Characterization of Forearm Muscle Activation in Duchenne Muscular Dystrophy via High-Density Electromyography: A Case Study on the Implications for Myoelectric Control

Nizamis, K., Rijken, N. H. M., van Middelaar, R., Neto, J., Koopman, B. F. J. M. & Sartori, M., 15 Apr 2020, In: *Frontiers in neurology*. 11, 231.

Evaluation of the cognitive-motor performance of adults with Duchenne Muscular Dystrophy in a hand-related task

Nizamis, K., Schutte, W., Grutters, J. J., Goseling, J., Rijken, N. H. M. & Koopman, B. F. J. M., 31 Jan 2020, In: *PLoS ONE*. 15, 1, p. 1-17 17 p., e0228128.

A case study with SymbiHand: An sEMG-controlled electrohydraulic hand orthosis for individuals with Duchenne muscular dystrophy

Bos, R. A., Nizamis, K., Koopman, B. F. J. M., Herder, J. L., Sartori, M. & Plettenburg, D. H., 1 Jan 2020, In: *IEEE transactions on neural systems and rehabilitation engineering*. 28, 1, p. 258-266

Hand Neuro-Motor Characterization and Motor Intention Decoding in Duchenne Muscular Dystrophy

Nizamis, K., 28 May 2019, 1st ed. Enschede: University of Twente. 230 p.

A Novel Setup and Protocol to Measure the Range of Motion of the Wrist and the Hand

Nizamis, K., Rijken, N., Mendes, A., Janssen, M., Bergsma, A. & Koopman, B., 22 May 2019, p. 143-143. 1 p.

Transferrable Expertise From Bionic Arms to Robotic Exoskeletons: Perspectives for Stroke and Duchenne Muscular Dystrophy

Nizamis, K., Stienen, A. H. A., Kamper, D. G., Keller, T., Plettenburg, D. H., Rouse, E. J., Farina, D., Koopman, B. F. J. M. & Sartori, M., May 2019, In: *IEEE Transactions on Medical Robotics and Bionics*. 1, 2, p. 88-96

Design of an Electrohydraulic Hand Orthosis for People with Duchenne Muscular Dystrophy Using Commercially Available Components

Bos, R., Nizamis, K., Plettenburg, D. & Herder, J. L., 11 Oct 2018, *2018 7th IEEE International Conference on Biomedical Robotics and Biomechatronics (Biorob)*. IEEE, p. 305-311 7 p.

A Novel Setup and Protocol to Measure the Range of Motion of the Wrist and the Hand

Nizamis, K. (Corresponding Author), Rijken, N. H. M., Mendes, A., Janssen, M. M. H. P., Bergsma, A. & Koopman, B. F. J. M., 25 Sept 2018, In: *Sensors (Switzerland)*. 18, 10, 14 p., 3230.

Quantification of Information Transfer Rate of the Human Hand during a Mouse Clicking Task with Healthy Adults and One Adult with Duchenne Muscular Dystrophy

Nizamis, K., Schutte, W., Goseling, J. & Koopman, H. F. J. M., 15 Aug 2017, *2017 International Conference on Rehabilitation Robotics (ICORR)*. IEEE

Comparison between sEMG and force as control interfaces to support planar arm movements in adults with Duchenne: A feasibility study

Lobo Prat, J., Nizamis, K., Janssen, M. M. H. P., Keemink, A. Q. L., Veltink, P. H., Koopman, H. F. J. M. & Stienen, A., 12 Jul 2017, In: Journal of neuroengineering and rehabilitation. 14, 73.

Towards the control of an active hand orthosis for people with Duchenne muscular dystrophy: Comparison of intuitive to non-intuitive sEMG control

Nizamis, K., Voss, S. & Koopman, H. F. J. M., 27 Jan 2017.

Towards the control of an active hand orthosis for people with Duchenne muscular dystrophy: Design and Validation of a wireless sEMG sleeve

Nizamis, K., Ganseij, M. & Koopman, H. F. J. M., 27 Jan 2017.

Towards Intuitive Control of Active Arm Supports for Men with Duchenne Muscular Dystrophy: A Hybrid sEMG-Torque Control Interface

Nizamis, K., Lobo Prat, J., Keemink, A. Q. L., Janssen, M., Carloni, R., Stienen, A. & Koopman, H. F. J. M., 10 Jun 2016, p. -.

A Structured overview of trends and technologies used in dynamic hand orthoses

Bos, R. A., Haarman, C. J. W., Stortelder, T., Nizamis, K., Herder, J. L., Stienen, A. H. A. & Plettenburg, D. H., 2016, In: Journal of neuroengineering and rehabilitation. 13, 1, p. 62-62 1 p.

Towards Intuitive Control of Active Arm Supports for Men with Duchenne Muscular Dystrophy: A Hybrid sEMG-Torque Control Interface

Nizamis, K., Lobo-Prat, J., Keemink, A. Q. L., Janssen, M. M. H. P., Carloni, R., Stienen, A. H. A. & Koopman, B. F. J. M., 14 Sept 2015.

Switching Proportional EMG Control of a 3D Endpoint Arm Support for People with Duchenne Muscular Dystrophy

Nizamis, K., Lobo Prat, J., Keemink, A. Q. L., Carloni, R., Stienen, A. & Koopman, H. F. J. M., Aug 2015, *IEEE International Conference on Rehabilitation Robotics*. USA: IEEE, p. 235-240 6 p.

Switching Proportional EMG Control of a 3D Endpoint Arm Support for People with Duchenne Muscular Dystrophy

Nizamis, K., Lobo Prat, J., Keemink, A. Q. L., Carloni, R., Stienen, A. & Koopman, H. F. J. M., 21 May 2015.

Towards Intuitive Control of Active Arm Supports for Men with Duchenne Muscular Dystrophy: A Hybrid sEMG-Torque Control Interface

Nizamis, K., Lobo Prat, J., Stienen, A., Carloni, R., Janssen, M., Keemink, A. & Koopman, B., 15 May 2015. 2 p.

State-of-the-art overview of hand assistive devices

Bos, R. A., Haarman, C. J. W., Stortelder, T., Nizamis, K., Beckers, N. W. M., Herder, J. L., Stienen, A. & Plettenburg, D. H., 22 Jan 2015. 1 p.

Symbiotic Hand Orthosis for People with Duchenne Muscular Dystrophy

Nizamis, K., Bos, R. A., Haarman, C. J. W., de Groot, I. J. M., Paalman, M. I., Harlaar, J., Veltink, P. H., Herder, J. L., Koopman, B. F. J. M., Plettenburg, D. H. & Stienen, A. H. A., 22 Jan 2015. 1 p.

Activities

Designing Lower-Limb Custom-Fit Orthotics for Resource Limited Regions

Nizamis, K. (Examiner) & Trauernicht, N. (Examiner)
3 Jul 2024

Systems Engineering & Curriculum Development: Design Rationale of the A3 Curriculum Overview

Nizamis, K. (Examiner) & Ludden, G. D. S. (Examiner)
28 May 2024

Development of a Data Driven Simulation tool of a Flexible Manufacturing System, a case study at WILA
Chemweno, P. K. (Examiner), Nizamis, K. (Examiner), Vaneker, T. H. J. (Examiner) & Yang, S. (Examiner)
24 Apr 2024

Towards Wearable Electromyography By Sensor Reduction For Personalized Musculoskeletal Trunk Models In Compression Force Estimation During Lifting – An Inverse Synergy-Based Approach
Refai, M. I. (Examiner), Sartori, M. (Examiner) & Nizamis, K. (Examiner)
9 Apr 2024

ELEVIT 2024 Symposium
Nizamis, K. (Participant)
23 Feb 2024

TumbleTooth, an ADL-based home rehabilitation aid for hand-stroke patients.
Haarman, J. A. M. (Examiner), Karahanoglu, A. (Examiner), Nizamis, K. (Examiner) & Reidsma, D. (Examiner)
29 Jan 2024

The Design Of A Subframe And Compartment With Real Value Or The Stern Electric Off-Road Motorcycle
Reyes Garcia, J. R. (Examiner), Nizamis, K. (Examiner) & Lutters, D. (Examiner)
20 Oct 2023

Uncertainty thinking: Embracing uncertainty in product development
de Koeijer, B. (Examiner), Lutters, D. (Examiner) & Nizamis, K. (Examiner)
20 Oct 2023

Keynote Lecture: A3 Architecture Overviews: Communications in multidisciplinary projects
Nizamis, K. (Keynote speaker)
7 Oct 2023

Systems Engineering and End-user inclusion in biomedical device development 2023
Nizamis, K. (Chair), Mitsopoulos, K. (Organiser) & Arvanitidis, T. (Organiser)
7 Oct 2023

51st Annual Conference of the European Society for Engineering Education, SEFI 2023
Nizamis, K. (Participant) & Pereira Pessoa, M. V. (Participant)
11 Sept 2023 → 14 Sept 2023

The development of a smart undershirt for stress detection through heart rate and respiratory rate monitoring
Hekman, E. E. G. (Examiner), Tuijthof, G. (Examiner) & Nizamis, K. (Examiner)
24 Aug 2023

Analysis and redesign of the WILA ATC system
Vaneker, T. H. J. (Examiner) & Nizamis, K. (Examiner)
8 Aug 2023

Design of an interface between cleaner and multiple, automated cleaning devices
Nizamis, K. (Examiner), van Zijl, R. (Examiner) & van der Voort, M. C. (Examiner)
5 Jul 2023

Smart daily-use objects for hand rehabilitation after stroke
Nizamis, K. (Speaker)
15 Jun 2023

Crash Intro to Systems Engineering: From Components to Systems
Nizamis, K. (Speaker)

30 May 2023

Design of a Transport System for the EVE R3 Robot

Vlutters, M. (Examiner), Overbeek, A. H.G.-J. (Examiner) & Nizamis, K. (Examiner)
8 May 2023

Implementing Systems Engineering in New Product Development at Benchmark Electronics

Lutters - Weustink, I. F. (Examiner), Gibson, I. (Examiner) & Nizamis, K. (Examiner)
30 Mar 2023

Design of an Orbital shaker for future laboratory use

Gibson, I. (Examiner), Jalalian, A. (Examiner) & Nizamis, K. (Examiner)
1 Mar 2023

Design of a wearable sensor to assist hip replacement patients during their physical therapy exercises

van der Heide, E. (Examiner) & Nizamis, K. (Examiner)
30 Jan 2023

Conversion of a sidecar configuration to an EV - A case study of the electrification of an IMZ-Ural sidecar motorcycle

Lutters, D. (Examiner), Damgrave, R. G. J. (Examiner) & Nizamis, K. (Examiner)
23 Jan 2023

Design and Characterization of an sEMG Band for Duchenne Patients

Vaneker, T. (Examiner), Krijnen, G. (Examiner), Nizamis, K. (Examiner) & Schouten, M. (Examiner)
14 Dec 2022

Systems (Journal)

Nizamis, K. (Reviewer)
26 Sept 2022 → ...

50th Annual Conference of the European Society for Engineering Education, SEFI 2022

Nizamis, K. (Participant) & Sullivan, B. P. (Participant)
19 Sept 2022 → 22 Sept 2022

SAN 2022

Nizamis, K. (Participant)
15 Sept 2022 → 17 Sept 2022

SAN 2022 (Event)

Nizamis, K. (Reviewer)
15 Sept 2022 → 17 Sept 2022

The development of a hand exoskeleton for people with Duchenne muscular dystrophy

Nizamis, K. (Invited speaker)
15 Sept 2022 → 17 Sept 2022

Design And Optimization Of Impedance Based Safety Metrics For Redundant Aerial Manipulators In Human-Robot Collision Scenarios

Franchi, A. (Examiner), Afifi, A. N. M. G. (Examiner) & Nizamis, K. (Examiner)
1 Sept 2022

3D Biodiversity and UX Implementation

Ludden, G. D. S. (Examiner), Eggink, W. (Examiner) & Nizamis, K. (Examiner)
30 Aug 2022

Sensors (Switzerland) (Journal)

Nizamis, K. (Reviewer)

29 Aug 2022 → ...

Systems engineering (Journal)

Nizamis, K. (Reviewer)

29 Aug 2022 → ...

Rehab Week 2022

Nizamis, K. (Participant), Haarman, J. A. M. (Participant) & Karahanoglu, A. (Participant)

25 Jul 2022 → 29 Jul 2022

3rd Barcelona Conference on Education, BCE 2022 (Event)

Nizamis, K. (Reviewer)

12 Jul 2022

WeCoRD Summer School in "Human-Robot-Interaction for Wearable and Collaborative Robots" 2022

Nizamis, K. (Organiser) & Vlutters, M. (Organiser)

11 Jul 2022 → 15 Jul 2022

Challenge –Based Learning: Yay or Nay?

Nizamis, K. (Speaker)

5 Jul 2022

Designing Smart Daily Training Objects for Hand and Arm Rehabilitation after Stroke

Haarman, J. A. M. (Examiner), Karahanoglu, A. (Examiner), Nizamis, K. (Examiner) & Reidsma, D. (Examiner)

1 Jul 2022

CHEtGUM Project: Integrative Design for a Chewing Gum Removal Robot

Nizamis, K. (Examiner), Bonnema, G. M. (Examiner) & Chemweno, P. K. (Examiner)

20 Jun 2022

CareTech Symposium 2022

Nizamis, K. (Participant), Haarman, J. A. M. (Participant) & Karahanoglu, A. (Participant)

1 Jun 2022 → 2 Jun 2022

A Polynomial Chaos Expansion Kalman Filter Approach to Robot Localization and Mapping by Monocular Depth Estimation

Rosic, B. (Examiner), van Dijk, W. (Examiner) & Nizamis, K. (Examiner)

25 May 2022

Frontiers in Education (Journal)

Nizamis, K. (Editor)

16 Feb 2022

4TU.NIRICT online workshop on multi-paradigm modelling 2021

Bonnema, G. M. (Participant) & Nizamis, K. (Participant)

1 Dec 2021

Finding our Bearings

Nizamis, K. (Participant) & Martinetti, A. (Participant)

1 Dec 2021 → 31 May 2022

Hand Neuro-Motor Characterisation: Publishing medical data

Nizamis, K. (Speaker)
26 Oct 2021

A Model For Network-Based Requirement Specifications In Design Engineering Projects

Lutters, D. (Examiner), de Lange, J. (Examiner) & Nizamis, K. (Examiner)
15 Oct 2021

Light-Based Signaling Using Philips Hue Lighting to Enhance Entertainment Immersion

Nizamis, K. (Examiner), Ludden, G. D. S. (Examiner) & Martinetti, A. (Examiner)
31 Aug 2021

Designing an intuitive object for hand rehabilitation at home

Nizamis, K. (Examiner), Karahanoglu, A. (Examiner) & Ludden, G. D. S. (Examiner)
15 Jul 2021

Crash Intro to Systems Engineering: From Components to Systems

Nizamis, K. (Speaker)
12 Jul 2021

IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM 2021

Nizamis, K. (Organiser) & Vlutters, M. (Organiser)
12 Jul 2021

Multichannel surface EMG and machine learning for classification of facial expressions

van Wezel, R. J. A. (Examiner), Yavuz, U. (Examiner) & Nizamis, K. (Examiner)
23 Jun 2021

Testing of system design methods and evaluations

Nizamis, K. (Examiner), Beldad, A. D. (Examiner) & Karreman, J. (Examiner)
23 Jun 2021

What to do with the data after your research?

Nizamis, K. (Speaker)
31 May 2021

Applied Sciences (Journal)

Nizamis, K. (Reviewer)
26 May 2021 → ...

The ideal Chemical Arena for Aeronamic

Chemweno, P. K. (Examiner), Thiede, S. (Examiner) & Nizamis, K. (Examiner)
26 May 2021

Journal of integrative neuroscience (Journal)

Nizamis, K. (Reviewer)
7 May 2021 → ...

Challenge-based education at the University of Twente – interdisciplinarity at work

Nizamis, K. (Speaker)
18 Mar 2021

Journal of biomechanics (Journal)

Nizamis, K. (Reviewer)

25 Feb 2021 → ...

Finding a convenient and mobile solution for tool transportation on a bicycle

Nizamis, K. (Examiner) & van der Heide, E. (Examiner)

22 Jan 2021

Designing A Trunk Exoskeleton Attachment With Multiple Degrees Of Freedom And Its Evaluation

van der Kooij, H. (Examiner), Mahmood, M. N. (Examiner) & Nizamis, K. (Examiner)

6 Jan 2021

International Symposium on Medical Robotics, ISMR 2021 (Event)

Nizamis, K. (Reviewer)

2021

Applied ergonomics (Journal)

Nizamis, K. (Reviewer)

30 Nov 2020 → ...

Frontiers in Digital Health (Journal)

Nizamis, K. (Reviewer)

13 Nov 2020 → ...

Development of MSc. Level Educational Material for Medical Robotics for Medical Professionals 2020

Nizamis, K. (Organiser), Vlutters, M. (Organiser), van Asseldonk, E. H. F. (Participant), Prange-Lasonder, G. B. (Participant), Siepel, F. J. (Participant), S. M. Khalil, I. (Participant) & Miedema, H. (Participant)

30 Sept 2020

Discussing Modernizing Engineering Education through the Erasmus + Project Titled "Open Educational Resources on Enabling Technologies in Wearable and Collaborative Robotics (WeCoRD)

Nizamis, K. (Speaker)

17 Sept 2020 → 18 Sept 2020

IEEE Robotics and automation letters (Journal)

Nizamis, K. (Reviewer)

19 Jun 2020 → ...

WeCoRD 2nd transnational meeting

Nizamis, K. (Organiser) & Vlutters, M. (Organiser)

20 May 2020

Redesign of the Haptic Paddle

Keemink, A. Q. L. (Examiner), Wessels, M. (Examiner) & Nizamis, K. (Examiner)

29 Apr 2020

Ultimaker FFF Microclimate Optimisation for the Production of Functional Models

Gibson, I. (Examiner), Nizamis, K. (Examiner) & Dierkes, W. K. (Examiner)

29 Apr 2020

Paladyn (Journal)

Nizamis, K. (Reviewer)

27 Mar 2020 → ...

Design And Development Of An Active Image Stabilization System For Security Camera

Gibson, I. (Examiner), Nizamis, K. (Examiner) & Toxopeus, M. E. (Examiner)
26 Mar 2020

3rd Duchenne Patient Academy 2019 (Event)

Nizamis, K. (Member)
6 Dec 2019 → 8 Dec 2019

WeCoRD 1st transnational meeting

Nizamis, K. (Participant)
21 Nov 2019 → 23 Nov 2019

Working Groups meetings of COST Action CA16116 2019

Nizamis, K. (Participant)
22 Oct 2019 → 23 Oct 2019

INCOSE EMEA Workshop 2019

Nizamis, K. (Participant)
10 Oct 2019 → 11 Oct 2019

A proposal for extending STEP for supporting the Integrated Network Approach

Gibson, I. (Examiner), Groll, M. W. (Examiner), Pereira Pessoa, M. V. (Examiner) & Nizamis, K. (Examiner)
19 Sept 2019

A product development success? Providing insights in improvement of industry's product development maturity.

Lutters, D. (Examiner), Damgrave, R. G. J. (Examiner) & Nizamis, K. (Examiner)
30 Aug 2019

Sofia Almpani

Nizamis, K. (Host)
28 Aug 2019 → 3 Sept 2019

Performance Analysis of a Textile-Based Soft Robotic Glove in Spinal Cord Injury

Koopman, B. F. J. M. (Examiner), Keemink, A. Q. L. (Examiner) & Nizamis, K. (Examiner)
17 Jul 2019

Creating material for the effective education of engineers towards the ethical, legal and societal aspects of wearable robotics

Nizamis, K. (Speaker)
10 Jul 2019

National Technical University of Athens

Nizamis, K. (Visiting researcher)
8 Jul 2019 → 15 Jul 2019

IEEE transactions on neural systems and rehabilitation engineering (Journal)

Nizamis, K. (Reviewer)
19 Jun 2019 → ...

3rd Congress on NeuroRehabilitation and Neural Repair 2019

Nizamis, K. (Participant)
22 May 2019 → 24 May 2019

European COST action 16116 on Wearable Robotics for augmentation, assistance or substitution of human motor functions

Nizamis, K. (Participant)
18 Mar 2019 → 19 Mar 2019

EMG-driven hand orthosis for people with Duchenne muscular dystrophy

Nizamis, K. (Speaker)
7 Feb 2019

7th Dutch Bio-Medical Engineering Conference, BME 2019

Nizamis, K. (Participant)
24 Jan 2019 → 25 Jan 2019

ISPO Netherlands Annual Congress 2018

Nizamis, K. (Participant)
5 Oct 2018

COST ACTION CA16116 Wearable robots for augmentation, assistance or substitution of human motor functions

van Asseldonk, E. H. F. (Organiser) & Nizamis, K. (Organiser)
29 Aug 2018 → 30 Aug 2018

7th IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics, BIOROB 2018

Nizamis, K. (Participant)
26 Aug 2018 → 29 Aug 2018

7th IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics, BIOROB 2018

Nizamis, K. (Organiser), Rijken, N. H. (Member of programme committee), Stienen, A. (Panel member), Buurke, J. H. (Panel member), Ting, L. (Panel member), Verheyden, G. (Panel member), Roby-Brami, A. (Panel member) & Schmidt-Felzmann, H. (Panel member)
26 Aug 2018

IEEE Transactions on Human-Machine Systems (Journal)

Nizamis, K. (Reviewer)
16 May 2018 → ...

A Real-Time Comparison Between sEMG Sequential Direct and Pattern Recognition Control.

Rietman, J. S. (Examiner), Nizamis, K. (Examiner) & van Beijnum, B. J. F. (Examiner)
8 Mar 2018

European COST action 16116 on Wearable Robotics for augmentation, assistance or substitution of human motor functions

Nizamis, K. (Participant)
5 Mar 2018 → 6 Mar 2018

A comparison of measuring methods for hand kinematics: Leap sensor and goniometer.

Koopman, B. F. J. M. (Examiner), Nizamis, K. (Examiner) & Rijken, N. H. (Examiner)
22 Jan 2018

Enabling Technologies: Between the needs for assistance and acceptance

Nagenborg, M. H. (Examiner), Boenink, M. (Examiner) & Nizamis, K. (Examiner)
3 Nov 2017

PLoS ONE (Journal)

Nizamis, K. (Reviewer)
20 Sept 2017 → ...

EU Cost action CA16116 Wearable Robotics (External organisation)

Nizamis, K. (Member)
22 Jul 2017 → Sept 2021

IEEE 15th International Conference on Rehabilitation Robotics, ICORR 2017

Nizamis, K. (Participant)
17 Jul 2017 → 20 Jul 2017

Muscle Activation Map of the Forearm for Seven Different Gestures in Healthy Subjects

Koopman, B. F. J. M. (Examiner), Nizamis, K. (Examiner) & Maartens, E. (Examiner)
7 Jul 2017

Design of a Real-Time Low Level and EMG Admittance for DC Micromotors Used in a Hand Orthosis

Koopman, B. F. J. M. (Examiner), Nizamis, K. (Examiner) & Buitenweg, J. R. (Examiner)
6 Jul 2017

Influence of Prolonged Training on the Information Transfer Rate and Workload of Healthy Young Adults

Koopman, B. F. J. M. (Examiner), Nizamis, K. (Examiner) & van Beijnum, B. J. F. (Examiner)
6 Jul 2017

Comparison of the Real-Time Classification Performance of Hand Gestures for Healthy People and One Adult with Duchenne Muscular Dystrophy

Koopman, B. F. J. M. (Examiner), Nizamis, K. (Examiner) & van Beijnum, F. (Examiner)
29 Jun 2017

Create a novel setup and protocol for measurement of kinematics of the Duchenne hand.

Koopman, B. F. J. M. (Examiner), Nizamis, K. (Examiner) & Akshita, A. (Examiner)
28 Jun 2017

Ethics and Policy of Robots in Healthcare Workshop

van Wynsberghe, A. A. L. (Organiser), Nizamis, K. (Participant), Fosch Villaronga, E. (Participant), Zaga, C. (Participant), Vallor, S. (Participant), Collins, E. (Participant), Andersen, M. (Participant), Ienca, M. (Participant), Rampton, V. (Participant), Paziienza, G. (Participant), Wang Long, L. (Participant), van der Linde, M. (Participant), Emilsson, L. (Participant) & Tamburini, G. (Participant)
26 Jun 2017

6th Dutch Bio-Medical Engineering Conference 2017

Nizamis, K. (Participant)
26 Jan 2017 → 27 Jan 2017

Basics of EMG Control

Nizamis, K. (Speaker) & Lobo Prat, J. (Speaker)
6 Oct 2016

Prosthetics and orthotics international (Journal)

Nizamis, K. (Reviewer)
5 Oct 2016 → ...

International Society of Electrophysiology and Kinesiology (External organisation)

Nizamis, K. (Member)
1 Oct 2016 → 30 Sept 2018

Quantifications Of Information Transfer Rate In Humans

Stienen, A. (Examiner), Nizamis, K. (Examiner) & de Jong, J. J. (Examiner)
24 Aug 2016

Prototype Of The 3-DOF A-Arm: A Passive Arm Support For Men With Duchenne Muscular Dystrophy

Nizamis, K. (Examiner)

22 Aug 2016

Design and Validation of a Wireless EMG-Sleeve for Gesture Classification

Stienen, A. (Examiner), Nizamis, K. (Examiner) & de Boer, A. (Examiner)

11 Jul 2016

XXI ISEK Congress 2016

Nizamis, K. (Organiser), Stienen, A. (Chair), Kamper, D. (Panel member), Farina, D. (Panel member), Keller, T. (Panel member), Plettenburg, D. (Panel member) & Rouse, E. (Panel member)

8 Jul 2016

XXI ISEK Congress 2016

Nizamis, K. (Participant)

5 Jul 2016 → 8 Jul 2016

Exploring the Viability of Non-Intuitive sEMG Control for a Virtual Hand

Nizamis, K. (Examiner)

10 Jun 2016

Muscles2Meet Young Talent Neuromuscular Meeting

Nizamis, K. (Participant)

10 Jun 2016 → 11 Jun 2016

Don't hand it over

Nizamis, K. (Speaker)

19 May 2016

EMG Gesture Classification

Nizamis, K. (Speaker)

21 Apr 2016

Low-costs EMG sleeve

Nizamis, K. (Speaker)

16 Apr 2016

IEEE 14th International Conference on Rehabilitation Robotics, ICORR 2015

Nizamis, K. (Participant)

11 Aug 2015 → 15 Aug 2015

Fine-Tuning of Artificial Neural Networks to Improve EMG to Force Mapping

Koopman, B. F. J. M. (Examiner), Lobo Prat, J. (Examiner), Nizamis, K. (Examiner) & Bolte, B. (Examiner)

21 Jun 2015

Congress on NeuroRehabilitation and Neural Repair 2015

Nizamis, K. (Participant)

21 May 2015 → 22 May 2015

Intention Amplifying in Hand Orthosis

Nizamis, K. (Speaker)

18 Apr 2015

Hands on anatomy workshop for the upper limb

Nizamis, K. (Organiser), Marani, E. (Chair), Lobo Prat, J. (Participant), Haarman, C. J. W. (Participant), Sluiter, V. I. (Participant), Bergsma, A. (Participant), Stienen, A. (Participant), Smulders, L. C. (Participant), Bos, R. (Participant), Huijben, J. (Participant) & Heutinck, L. (Participant)
20 Feb 2015

4th Dutch Bio-Medical Engineering Conference, BME 2013

Nizamis, K. (Participant)
22 Jan 2015 → 23 Jan 2015

Erasmus University Rotterdam

Nizamis, K. (Visiting lecturer)
17 Nov 2014

Monte VeritàCSF Conference: Hand, Brain & Technology 2014

Nizamis, K. (Participant)
7 Sept 2014 → 12 Sept 2014

Reviewer for high-profile journals and conferences (Event)

Nizamis, K. (Reviewer)
2014 → ...