

NIELS ALEXANDER NIJDAM

h-index:14 \diamond I-Sec Lab director
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PERSONAL INFORMATION

Date of birth 29th of September 1981
Citizenship Dutch, Swiss C Permit
Languages English (Fluent), Dutch (Fluent), German (Fluent), French (Beginner)
Website <https://nijdam.ch>
LinkedIn <https://linkedin.com/in/niels-nijdam>
OrcID <https://orcid.org/0000-0002-0172-6319>

CURRENT POSITION

Senior researcher & lecturer (Maître d'enseignement et de recherche) **November 2018**
University of Geneva, Information Science Institute, I-Sec lab Carouge, Switzerland

PREVIOUS POSITIONS

Collaborateur Scientifique II **November 2016 – October 2018**
University of Geneva, Information Science Institute Carouge, Switzerland
Collaborateur Scientifique I **November 2014 – October 2016**
University of Geneva, Information Science Institute Carouge, Switzerland
Senior Researcher / Developer **June 2014 – October 2014**
ArtAnim research Carouge, Switzerland
Senior Researcher / Post-doc **January 2014 - May 2014**
University of Geneva, Institute of Services Science, MIRALab Carouge, Switzerland
Research Assistant **October 2010 – 2013**
University of Geneva, Institute of Services Science, MIRALab Carouge, Switzerland
Researcher Marie Curie **February 2009 – September 2010**
University of Geneva, Institute of Services Science, MIRALab Carouge, Switzerland
Research Assistant **March 2008 – December 2010**
University of Geneva, Institute of Services Science, MIRALab Carouge, Switzerland
Developer **August 2007 – January 2008**
University of Twente, Human Media Interaction Enschede, The Netherlands
Developer **February 2004 – June 2004**
Philips CFT - Industrial Vision Eindhoven, The Netherlands
Developer **February 2001 – June 2001**
Betagraphics B.V. Hengelo, The Netherlands

EDUCATION

PhD. in Computer Science **May 2008 - December 2013**
University of Geneva, Institute of Services Science, MIRALab Carouge, Switzerland
Thesis: Context-Aware 3D rendering for User-Centric Pervasive Collaborative computing environments. *Advisors:* Prof. N.Magnenat Thalmann & Prof. J.Rolim

MSc. in Computer Science **September 2004 - August 2007**
University Department of Electrical Engineering, Mathematics and Computer Science, Human Media Interaction, University of Twente Enschede, The Netherlands *Thesis:* Facial rendering. *Advisors:* Prof. M.Poel, Prof. Z.Ruttkay, Prof. J.Zwiers

BSc. of Information and Communication Technology **September 2001 - July 2004**
Saxion Hogeschool, University of Applied Sciences Enschede, The Netherlands
Thesis: Visualize the past for the future - Graduation report about the development of the visual analysis and

classification software. *Advisors:* Dr. H.R.Zielman(Saxion) and R.J.L. Wetzels, H. Broers & R.A.H. Breen (Philips Centre For Industrial Technology)

Technical Training Office Computerisation

ROC Oost-Nederland, Technology Sector

Thesis: Technical report, Internship at Betagraphics B.V., Hengelo. *Advisors:* S.J. Slot (ROC TI) & E. Mulder (Betagraphics)

September 2001 - July 2001

Hengelo, The Netherlands

I-SEC LAB FUNDING (SINCE 2017)

<i>Projects as principal investigator</i> (4 projects)	€3 067 375.00
<i>Projects as co-lead and member</i> (7 projects)	€1 111 500.00
<i>Proposal coordination support</i> (5 proposals)	€40 000.00
Total acquired funds	€4 218 875.00

TEACHING

Communication Networks D200010

3 ECTS, Full semester, re-designed

Information Security D200023

3 ECTS, Full semester, 23 students, re-designed

Autumn 2024 - present

GSEM & CUI, University of Geneva

Spring 2023 – present

GSEM & CUI, University of Geneva

PH.D SUPERVISION

Julie-Christine Burki

Co-supervision with Prof. J-H.Morin & Dr. A.Collen

September 2024 - present

Faithful Abah

Co-supervision with Prof. K.Wac & Dr. A.Collen

September 2024 - present

Dr. Teri Lenard

Co-supervision with Prof. D.Konstantas, Prof. B.Genge & Dr. A.Collen

June 2020 - September 2024

Double doctoral degree with University Of Medicine, Pharmacy, Science And Technology Of Târgu Mureş "George Emil Palade" din Targu Mures, Romania

Dr. Meriem Benyahya

Co-supervision with Prof. D.Konstantas & Dr. A.Collen

April 2020 - July 2024

Dr. Anastasija Collen

Co-supervision with Prof. D.Konstantas

September 2019 - April 2022

Dr. Mohammed Akram Abdulghani Hezam

Co-supervision with Prof. D.Konstantas

April 2017 - September 2019

POSTDOC SUPERVISION

Dr. Meriem Benyahya (with Dr. A.Collen)

July 2024 - present

Dr. Anastasija Collen

April 2022 - March 2023

Dr. Mohammed Akram Abdulghani Hezam (with Prof. D.Konstantas) **August 2021 - August 2023**

M.SC THESES SUPERVISION

Bernard Huynh (with Dr. A.Collen & Dr. M.Benyahya)

February 2024 - present

Senou Ronald Alohoutade (with Dr. A.Collen)

January 2024 - present

Pilmossi Prince Mabika Mavoungou (with Dr. A.Collen & Dr. M.Benyahya) **December 2023 - present**

Lima Madomi (with Dr. A.Collen)

November 2023 - present

Pierre Bergerat (with Dr. A.Collen & Dr. M.Benyahya)

March 2022 - August 2022

PH.D COMMITTEE MEMBER

Dr. Shervin Zakeri	2024
Dr. Alexandre de Masi	2022
Dr. Lucie A. Chauveau	2020
Dr. Marios Fanourakis	2018

PROJECTS

AutoTRUST — <i>Horizon Europe, HORIZON-CL5-2023-D6-01-01</i> Principal investigator, proposal co-writer Evaluation (13/15) Autonomous self-adaptive services for TRansformational personalized inclUsiveness and resilience in mobiliTy	May 2024 - Apr 2027 <i>I-Sec funding:</i> €896 500.00 <i>Overall budget:</i> €6 443 225.00
OPEVA — <i>Horizon KDT-JU, HORIZON-KDT-JU-2021-2-RIA</i> Principal investigator, proposal co-writer Evaluation (13.8/15) OPTimization of Electric Vehicle Autonomy	Jan 2023 - Dec 2025 <i>I-Sec funding:</i> €884 000.00 <i>Overall budget:</i> €22 720 714.00
SINNOGENES — <i>Horizon Europe, HORIZON-CL5-2022-D3-01-11</i> Coordination Evaluation (12.5/15) Storage Innovations for green energy systems	Jan 2023 - Dec 2026 <i>I-Sec funding:</i> €26 000.00 <i>UNIGE budget:</i> €410 000.00 <i>Overall budget:</i> €9 687 547.00
ULTIMO — <i>Horizon Europe, HORIZON-CL5-2022-D6-01-01</i> Coordination, task Leader, proposal co-writer Evaluation (12/15) Advancing Sustainable User-centric Mobility with Automated Vehicles	Oct 2022 - Sep 2026 <i>I-Sec funding:</i> €416 000.00 <i>UNIGE budget:</i> €1 906 250.00 <i>Overall budget:</i> €42 368 270.00
ENFLATE — <i>Horizon Europe, HORIZON-CL5-2021-D3-02-06</i> Coordination, task Leader, proposal co-writer Evaluation (14/15) Enabling Flexibility provision by all Actors and Sectors through markets and digital Technologies	Sep 2022 - Aug 2026 <i>I-Sec funding:</i> €108 000.00 <i>UNIGE budget:</i> €518 750.00 <i>Overall budget:</i> €9 313 018.00
SLICES-PP — <i>Horizon Europe, HORIZON-INFRA-2021-DEV-02-01</i> Coordination, task Leader, proposal co-writer Evaluation (14.5/15) Scientific Large-scale Infrastructure for Computing/Communication Experimental Studies - Preparatory Phase	Sep 2022 - Dec 2025 <i>I-Sec funding:</i> €22 000.00 <i>UNIGE budget:</i> €45 000.00 <i>Overall budget:</i> €2 999 592.00
SHOW — <i>Horizon 2020, DT-ART-04-2019</i> Coordination, task Leader, proposal co-writer Evaluation (11.5/15) SHared automation Operating models for Worldwide adoption	Jan 2020 - Dec 2023 <i>I-Sec funding:</i> €108 000.00 <i>Overall budget:</i> €36 122 690.00
nIoVe — <i>Horizon 2020, SU-ICT-01-2018</i> Principal investigator, proposal coordinator & co-writer Evaluation (11.5/15) Adaptive Cybersecurity Framework for the Internet-of-Vehicles	May 2019 - Aug 2022 <i>I-Sec funding:</i> €530 625.00 <i>Overall budget:</i> €5 839 375.00
AVENUE — <i>Horizon 2020, ART-07-2017</i> Coordination, task leader, proposal co-writer Evaluation (12/15) Autonomous Vehicles to Evolve to a New Urban Experience	May 2018 - Oct 2022 <i>I-Sec funding:</i> €270 000.00 <i>UNIGE budget:</i> €2 049 250.00 <i>Overall budget:</i> €20 034 245.00
GHOST — <i>Horizon 2020, DS-02-2016</i> Principal investigator, proposal coordinator & co-writer Evaluation (14/15) Safe-Guarding Home IoT Environments with Personalised Real-time Risk Control	May 2017 - Apr 2020 <i>I-Sec funding:</i> €756 250.00 <i>Overall budget:</i> €4 995 519.00
Vizier — <i>Active and Assisted Living</i> Task leader, proposal coordinator & co-writer	Jan 2017 - Nov 2020 <i>I-Sec funding:</i> €161 500.00

Evaluation (19/25) Intuitive and elderly friendly interface	<i>UNIGE budget: €920 250.00</i> <i>Overall budget: €3 742 774.00</i>
GrowMeUp — <i>Horizon 2020, PHC-19-2014</i> Task leader, proposal coordinator & co-writer Grown-ups with supportive robots	Nov 2016 - Jan 2018 <i>UNIGE budget: €625 000.00</i> <i>Overall budget: €3 415 930.00</i>
Animate — <i>Active and Assisted Living</i> Research & development support intergeneratioNal commuNity for coMpAny knowledge TransfEr	Sep 2016 - Nov 2016 <i>Overall budget: €2 136 512.00</i>
CogniWin — <i>Active and Assisted Living</i> Task leader, research & development support Cognitive Support for older adults at work	May 2015 - Jun 2016 <i>Overall budget: €3 639 208.00</i>
Miraculous-Life — <i>European Framework Programme 7, FP7-ICT-2013-10</i> Work package & task leader Miraculous-Life for Elderly Independent Living	Nov 2014 - Nov 2016 <i>UNIGE budget: €433 900.00</i> <i>Overall budget: €4 195 276.00</i>
CaMeLi — <i>Active and Assisted Living</i> Work package & task leader Care Me for Life	Nov 2014 - Aug 2015 <i>Overall budget: €3 455 319.00</i>
Taylormatic — <i>ArtAnim research</i> Research and development	Jun 2014 - Oct 2014 <i>Private funding</i>
RePlay — <i>European Framework Programme 7, ICT-2011.8.2</i> Work package & task leader Reusable low-cost platform for digitizing and preserving traditional participative sports	Mar 2013 - May 2014 <i>UNIGE budget: €259 200.00</i> <i>Overall budget: €2 575 271.00</i>
MultiScaleHuman — <i>European Framework Programme 7, FP7-PEOPLE-2011-ITN</i> Work package & task leader Multi-scale Biological Modalities for Physiological Human Articulation	Oct 2011 - May 2014 <i>UNIGE budget: €907 184.00</i> <i>Overall budget: €3 561 930.00</i>
3D-Life — <i>European Framework Programme 7, ICT-2009.1.5</i> Work package & task leader Bringing the Media Internet to Life	Aug 2011 - Jun 2013 <i>UNIGE budget: €369 550.00</i> <i>Overall budget: €4 087 097.00</i>
SERVIVE — <i>European Framework Programme 7, NMP-2007-3.1-2</i> Work package & task leader SERVice Oriented Intelligent Value Adding nEtwork for Clothing-SMEs embarking in Mass-Customisation	Sep 2008 - Aug 2011 <i>UNIGE budget: €224 700.00</i> <i>Overall budget: €4 739 382.00</i>
3D Anatomical Human — <i>European Framework Programme 6, MOBILITY-1.1</i> Work package & task leader 3D anatomical functional models for the human musculoskeletal system	Jul 2009 - Sep 2010 <i>Overall budget: €3 081 387.00</i>
InterMedia-NoE — <i>European Framework Programme 6, IST-2005-2.41.6</i> Work package & task leader Interactive Media with Personal Networked Devices	Mar 2008 - Sep 2010 <i>Overall budget: €5 596 000.00</i>
LEAPFROG — <i>European Framework Programme 6, FP6-2003-NMP-NI-3</i> Research & development support Leadership For European Apparel Production From Research Along Original Guidelines	Mar 2008 - Jul 2009 <i>Overall budget: €23 376 559.00</i>
Indigo — <i>European Framework Programme 6, IST-2005-2.6.1</i> Development support Indigo Interaction with Personality and Dialogue Enabled Robots	Mar 2008 - Jul 2009 <i>Overall budget: €3 253 723.00</i>

PROPOSALS

ACHIEVED THRESHOLD, NOT FUNDED DUE TO BUDGET LIMITATIONS, LAST TWO YEARS

GRACE — <i>Horizon Europe, HORIZON-CL4-2024-DATA-01-01</i> Principal investigator, proposal co-writer	Apr 2024 <i>I-Sec budget: €932 500.00</i>
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Evaluation (12/15)	Overall budget: €12 887 890.00
Gearing up to Reach Automated Compliant dataspaceS	
HyperSCALE — <i>Horizon Europe, HORIZON-CL4-2024-DATA-01-03</i>	Apr 2024
Principal investigator, proposal co-writer	I-Sec budget: €1 030 000.00
Evaluation (10/15)	Overall budget: €24 747 063.00
GLarge-scale pilots to boost European IoT and AI	
CASTELLUM — <i>Horizon Europe, HORIZON-CL3-2023-CS-01-01</i>	Nov 2023
Principal investigator, proposal coordinator & co-writer	I-Sec budget: €1 302 550.00
Evaluation (10/15)	Overall budget: €7 282 862.00
Shielding computing Continuum from edge to dAtaspace by HarneSsing ArTificial IntELLigence, Zero-trust SecUrity & Zero-knowledge Machine learning	
PRISM — <i>Horizon Europe, HORIZON-CL3-2023-CS-01-03</i>	Nov 2023
Principal investigator, proposal coordinator & co-writer	I-Sec budget: €1 071 500.00
Evaluation (13/15)	Overall budget: €6 434 134.00
Safeguarding Artificial Intelligence with Security and Privacy in Connected Automated Mobility	
OmniFlex — <i>Horizon Europe, HORIZON-CL3-2023-INFRA-01-02</i>	Nov 2023
Principal investigator, proposal co-writer	I-Sec budget: €348 000.00
Evaluation (12/15), reserve list	Overall budget: €4 748 560.00
Universal Solutions for Adaptive Infrastructure Resilience	
LAIMA — <i>Horizon Europe, HORIZON-CL3-2023-CS-01-01</i>	Nov 2023
Principal investigator, proposal coordinator & co-writer	I-Sec budget: €1 297 500.00
Evaluation (10/15)	Overall budget: €4 932 445.00
Leading agile innovations in multilayered cybersecurity for the computing continuum in IoT-enabled ecosystems	
SAMS — <i>Innosuisse, Flagship Initiative</i>	Jan 2023
Principal investigator, proposal coordinator & co-writer	I-Sec budget: €782 070.00
Evaluation (Invited to 2nd phase)	Overall budget: €6 205 190.00
Sustainable Automated Mobility for Switzerland	
CAMELOT — <i>Horizon Europe, HORIZON-CL5-2023-D6-01-04</i>	Sep 2023
Principal investigator, proposal co-writer	I-Sec budget: €421 250.00
Evaluation (12/15)	Overall budget: €4 879 244.00
Cooperative, connected and Automated Mobility Equity through the assessment of cuLtural and geOgraphical diversity	

PUBLICATIONS

- **Niels A. Nijdam**, Meriem Benyahya, and Anastasija Collen. Cybersecurity and Data Privacy: Stakeholders' Stand on Regulations and Standards. In Guy Fournier, Adrian Boos, Dimitri Konstantas, and Danielle Attias, editors, *Automated Vehicles as a Game Changer for Sustainable Mobility*, pages 151–168. Springer Nature Switzerland, Cham, 2024. Series Title: Contributions to Management Science.
- Teri Lenard, Béla Genge, Anastasija Collen, and **Niels A. Nijdam**. LOKI-2: An Improved Lightweight Cryptographic Key Distribution Protocol for Automotive Systems. In *2023 IEEE 19th International Conference on Intelligent Computer Communication and Processing (ICCP)*, pages 187–194, Cluj-Napoca, Romania, January 2024. IEEE.
- Teri Lenard, Béla Genge, Piroška Haller, Anastasija Collen, and **Niels A. Nijdam**. An Automotive Reference Testbed with Trusted Security Services. *Electronics*, 12(4):888, February 2023.
- Teri Lenard, Anastasija Collen, **Niels A. Nijdam**, and Bela Genge. A Key to Embedded System Security: Locking and Unlocking Secrets with a Trusted Platform Module. In *2023 IEEE European Symposium on Security and Privacy Workshops (EuroS&PW)*, pages 329–335, Delft, Netherlands, July 2023. IEEE.
- Teri Lenard, Anastasija Collen, Meriem Benyahya, **Niels A. Nijdam**, and Béla Genge. Exploring Trust Modeling and Management Techniques in the Context of Distributed Wireless Networks: A Literature Review. *IEEE Access*, 11:106803–106832, 2023.
- Meriem Benyahya, Teri Lenard, Anastasija Collen, and **Niels A. Nijdam**. A Systematic Review of Threat Analysis and Risk Assessment Methodologies for Connected and Automated Vehicles. In *Proceedings of the 18th*

International Conference on Availability, Reliability and Security, pages 1–10, Benevento Italy, August 2023. ACM.

- Meriem Benyahya, Anastasija Collen, and **Niels A. Nijdam**. Analyses on standards and regulations for connected and automated vehicles: Identifying the certifications roadmap. *Transportation Engineering*, 14:100205, 2023.
- Meriem Benyahya, Pierre Bergerat, Anastasija Collen, and **Niels A. Nijdam**. Symbiotic Analysis of Security Assessment and Penetration Tests Guiding Real L4 Automated City Shuttles. *Telecom*, 4(1):198–218, March 2023.
- Hezam Akram Abdulghani, Anastasija Collen, and **Niels A. Nijdam**. Guidance Framework for Developing IoT-Enabled Systems’ Cybersecurity. *Sensors*, 23(8):4174, April 2023.
- Anastasija Collen, Ioan-Cosmin Szanto, Meriem Benyahya, Bela Genge, and **Niels A. Nijdam**. Integrating Human Factors in the Visualisation of Usable Transparency for Dynamic Risk Assessment. *Information*, 13(7):340, July 2022.
- Anastasija Collen and **Niels A. Nijdam**. Can I Sleep Safely in My Smarthome? A Novel Framework on Automating Dynamic Risk Assessment in IoT Environments. *Electronics*, 11(7):1123, April 2022.
- Meriem Benyahya, Sotiria Kechagia, Anastasija Collen, and **Niels A. Nijdam**. The Interface of Privacy and Data Security in Automated City Shuttles: The GDPR Analysis. *Applied Sciences*, 12(9):4413, April 2022.
- Meriem Benyahya, Anastasija Collen, Sotiria Kechagia, and **Niels A. Nijdam**. Automated city shuttles: Mapping the key challenges in cybersecurity, privacy and standards to future developments. *Computers & Security*, 122:102904, November 2022.
- Hezam Akram Abdulghani, **Niels A. Nijdam**, and Dimitri Konstantas. Analysis on Security and Privacy Guidelines: RFID-Based IoT Applications. *IEEE Access*, 10:131528–131554, 2022.
- Hezam Akram Abdulghani, **Niels A. Nijdam**, and Dimitri Konstantas. Analysis on Security and Privacy Guidelines: RFID-Based IoT Applications. *IEEE Access*, 10:131528–131554, 2022.
- Benedetto Marco Serinelli, Anastasija Collen, and **Niels A. Nijdam**. On the analysis of open source datasets: validating IDS implementation for well-known and zero day attack detection. *Procedia Computer Science*, 191:192–199, 2021.
- Benedetto Marco Serinelli, Anastasija Collen, and **Niels A. Nijdam**. Training Guidance with KDD Cup 1999 and NSL-KDD Data Sets of ANIDINR: Anomaly-Based Network Intrusion Detection System. *Procedia Computer Science*, 175:560–565, 2020.
- Simon Senecal, **Niels A. Nijdam**, Andreas Aristidou, and Nadia Magnenat-Thalmann. Salsa dance learning evaluation and motion analysis in gamified virtual reality environment. *Multimedia Tools and Applications*, 79(33-34):24621–24643, September 2020.
- K. M. Giannoutakis, G. Spathoulas, C. K. Filelis-Papadopoulos, A. Collen, M. Anagnostopoulos, K. Votis, and **N.A. Nijdam**. A Blockchain Solution for Enhancing Cybersecurity Defence of IoT. In *2020 IEEE International Conference on Blockchain (Blockchain)*, pages 490–495, Rhodes Island, Greece, November 2020. IEEE.
- Pankaj Pandey, Anastasija Collen, **Niels A. Nijdam**, Marios Anagnostopoulos, Sokratis Katsikas, and Dimitri Konstantas. Towards automated threat-based risk assessment for cyber security in smarthomes. In *18th European Conference on Cyber Warfare and Security, ECCWS 2019*, pages 839–844. Curran Associates, Inc, 2019.
- J. Augusto-Gonzalez, A. Collen, S. Evangelatos, M. Anagnostopoulos, G. Spathoulas, K. M. Giannoutakis, K. Votis, D. Tzovaras, B. Genge, E. Gelenbe, and **N.A. Nijdam**. From Internet of Threats to Internet of Things: A Cyber Security Architecture for Smart Homes. In *2019 IEEE 24th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD)*, pages 1–6, Limassol, Cyprus, September 2019. IEEE.
- Hezam Akram Abdulghani, **Niels A. Nijdam**, Anastasija Collen, and Dimitri Konstantas. A Study on Security and Privacy Guidelines, Countermeasures, Threats: IoT Data at Rest Perspective. *Symmetry*, 11(6):774, June 2019.
- Christiana Tsiourti, Joao Quintas, Maher Ben-Moussa, Sten Hanke, **Niels A. Nijdam**, and Dimitri Konstantas. The CaMeLi Framework—A Multimodal Virtual Companion for Older Adults. In Yaxin Bi, Supriya Kapoor, and

Rahul Bhatia, editors, *Intelligent Systems and Applications*, volume 751, pages 196–217. Springer International Publishing, Cham, 2018. Series Title: Studies in Computational Intelligence.

- Georgios Spathoulas, Anastasija Collen, Pankaj Pandey, **Niels A. Nijdam**, Sokratis Katsikas, Charalampos S. Kouzinopoulos, Maher Ben Moussa, Konstantinos M. Giannoutakis, Konstantinos Votis, and Dimitrios Tzouvaras. Towards Reliable Integrity in Blacklisting: Facing Malicious IPs in GHOST Smart Contracts. In *2018 Innovations in Intelligent Systems and Applications (INISTA)*, pages 1–8, Thessaloniki, July 2018. IEEE.
- Simon Senecal, **Niels A. Nijdam**, and Nadia Magnenat Thalmann. Motion analysis and classification of salsa dance using music-related motion features. In *Proceedings of the 11th Annual International Conference on Motion, Interaction, and Games*, pages 1–10, Limassol Cyprus, November 2018. ACM.
- Charalampos S. Kouzinopoulos, Georgios Spathoulas, Konstantinos M. Giannoutakis, Konstantinos Votis, Pankaj Pandey, Dimitrios Tzouvaras, Sokratis K. Katsikas, Anastasija Collen, and **Niels A. Nijdam**. Using Blockchains to Strengthen the Security of Internet of Things. In Erol Gelenbe, Paolo Campegiani, Tadeusz Czachórski, Sokratis K. Katsikas, Ioannis Komnios, Luigi Romano, and Dimitrios Tzouvaras, editors, *Security in Computer and Information Sciences*, volume 821, pages 90–100. Springer International Publishing, Cham, 2018. Series Title: Communications in Computer and Information Science.
- Charalampos S. Kouzinopoulos, Konstantinos M. Giannoutakis, Konstantinos Votis, Dimitrios Tzouvaras, Anastasija Collen, **Niels A. Nijdam**, Dimitri Konstantas, Georgios Spathoulas, Pankaj Pandey, and Sokratis Katsikas. Implementing a Forms of Consent Smart Contract on an IoT-based Blockchain to promote user trust. In *2018 Innovations in Intelligent Systems and Applications (INISTA)*, pages 1–6, Thessaloniki, July 2018. IEEE.
- A. Collen, **N.A. Nijdam**, J. Augusto-Gonzalez, S. K. Katsikas, K. M. Giannoutakis, G. Spathoulas, E. Gelenbe, K. Votis, D. Tzouvaras, N. Ghavami, M. Volkamer, P. Haller, A. Sánchez, and M. Dimas. GHOST - Safe-Guarding Home IoT Environments with Personalised Real-Time Risk Control. In Erol Gelenbe, Paolo Campegiani, Tadeusz Czachórski, Sokratis K. Katsikas, Ioannis Komnios, Luigi Romano, and Dimitrios Tzouvaras, editors, *Security in Computer and Information Sciences*, volume 821, pages 68–78. Springer International Publishing, Cham, 2018. Series Title: Communications in Computer and Information Science.
- Matthias Becker, **Niels A. Nijdam**, and Nadia Magnenat-Thalmann. Coupling strategies for multi-resolution deformable meshes: expanding the pyramid approach beyond its one-way nature. *International Journal of Computer Assisted Radiology and Surgery*, 11(5):695–705, May 2016.
- **Niels A. Nijdam**. Context-Aware 3D rendering for User-Centric Pervasive Collaborative computing environments. *PhD thesis, Institute of Services Science, University of Geneva*, 2014. Publisher: (:unav).
- **Niels A. Nijdam**, Yvain Tisserand, and Nadia Magnenat-Thalmann. Refurbish a single user 3D application into a multi-user distributed service: a case study. In *Proceedings of the 19th ACM Symposium on Virtual Reality Software and Technology*, pages 193–200, Singapore, October 2013. ACM.
- **Niels A. Nijdam**, Bart Kevelham, Seunghyun Han, and Nadia Magnenat-Thalmann. An application framework for adaptive distributed simulation and 3D rendering services. In *Proceedings of the 11th ACM SIGGRAPH International Conference on Virtual-Reality Continuum and its Applications in Industry*, pages 103–110, Singapore Singapore, December 2012. ACM.
- Mingyu Lim, Bart Kevelham, **Niels A. Nijdam**, and Nadia Magnenat-Thalmann. Rapid development of distributed applications using high-level communication support. *Journal of Network and Computer Applications*, 34(1):172–182, January 2011.
- **N.A. Nijdam**, S. Han, B. Kevelham, and N. Magnenat-Thalmann. A context-aware adaptive rendering system for user-centric pervasive computing environments. In *Melecon 2010 - 2010 15th IEEE Mediterranean Electrotechnical Conference*, pages 790–795, Valletta, Malta, 2010. IEEE.
- Nadia Magnenat-Thalmann, **Niels A. Nijdam**, Seunghyun Han, and Dimitris Protopsaltou. InterMedia: Towards Truly User-Centric Convergence of Multimedia. In Petros Daras and Oscar Mayora Ibarra, editors, *User Centric Media*, volume 40, pages 3–10. Springer Berlin Heidelberg, Berlin, Heidelberg, 2010. Series Title: Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering.
- Seunghyun Han, **Niels A. Nijdam**, Jérôme Schmid, Jinman Kim, and Nadia Magnenat-Thalmann. Collaborative telemedicine for interactive multiuser segmentation of volumetric medical images. *The Visual Computer*, 26(6-8):639–648, June 2010.
- Jérôme Schmid, **Niels A. Nijdam**, Seunghyun Han, Jinman Kim, and Nadia Magnenat-Thalmann. Interactive Segmentation of Volumetric Medical Images for Collaborative Telemedicine. In David Hutchison, Takeo

Kanade, Josef Kittler, Jon M. Kleinberg, Friedemann Mattern, John C. Mitchell, Moni Naor, Oscar Nierstrasz, C. Pandu Rangan, Bernhard Steffen, Madhu Sudan, Demetri Terzopoulos, Doug Tygar, Moshe Y. Vardi, Gerhard Weikum, and Nadia Magnenat-Thalmann, editors, *Modelling the Physiological Human*, volume 5903, pages 13–24. Springer Berlin Heidelberg, Berlin, Heidelberg, 2009. Series Title: Lecture Notes in Computer Science.

- Fadi Chehimi, **Niels A. Nijdam**, Dominik Schmidt, Enrico Rukzio, and Nadia Magnenat-Thalmann. An Interactive Table Supporting Mobile Phone Interaction and 3D Content. September 2009.
- Mingyu Lim, **Niels A. Nijdam**, and Nadia Magnenat-Thalmann. A general collaborative platform for mobile multi-user applications. In *2008 IEEE International Conference on Emerging Technologies and Factory Automation*, pages 1346–1353, September 2008. ISSN: 1946-0759.
- Bart Kevelham, **Niels A. Nijdam**, George Papagiannakis, Mingyu Lim, and Nadia Magnenat-Thalmann. Remote Augmented Reality for Virtual Fashion Models. Geneva, October 2008.
- **N.A. Nijdam**. *Facial rendering*. PhD thesis, University of Twente, Enschede, July 2007. Msc.
- **N.A. Nijdam**. Mapping emotion to color. In *University of Twente*, Enschede, 2005.