



Artificial Intelligence for NMCAs

3 – 4 February 2021

Joint Virtual Workshop organised by EuroGeographics and EuroSDR

Artificial Intelligence (AI) has shifted from the realms of future technology. Deep learning, machine learning, AI, big data are no longer buzzwords but emerging technologies that are shaping the way data are collected, maintained, managed and used. From various sources, AI is being declared to be essential technology for future geospatial activities. In this context, it is important to answer questions such as: What are the potentials of AI? What are the current technology trends in AI for geospatial data? What does this mean for National Mapping, Cadastral and Land Registration Authorities (NMCAs) across Europe? And, what are the potential risks?

This virtual event aims to raise awareness and understanding of AI within the context of NMCAs. By sharing policy frameworks, research trends and experiences of implementing AI this workshop will help us to appreciate the impact, benefits and effect of AI on the business processes of European NMCAs.

The workshop is aimed at staff members of NMCAs and researchers at NMCAs and academic institutions with an interest in Artificial Intelligence in the geospatial sector.

If interested, then it would be great if you join us for this free virtual workshop which is spread over two half-day sessions on the 3 – 4 February 2021.

| Day 1 14:00 – 17:00 (CET) | | |
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| 14:00 | Welcome from EuroGeographics and EuroSDR | Léa Bodossian, EuroGeographics Joep Crompvoets, EuroSDR |
| 14:10 | AI and the EU – European policies/actions for AI | Marjana Zelic, EuroGeographics |
| 14:25 | Inventory of Current AI-projects | André Streilein, swisstopo/EuroSDR |
| 14:40 | AI & 3D point cloud classification | George Vosselman, University of Twente |
| 15:10 | GeoAI with ArcGIS: Integrating AI in end-to-end workflows for NMCAs | Günter Dörffel, ESRI Inc. |
| 15:40 | <i>Comfort break</i> | |
| 15:50 | What is AI? An introduction to the basics of artificial intelligence in the context of NMCAs | Franz Rottensteiner, Leibniz Universität Hannover |
| 16:10 | Panel: AI in NMCAs – Threat or Opportunity? <ul style="list-style-type: none"> • Fabio Remondino, EuroSDR • Carol Agius, EuroGeographics • George Vosselman, University of Twente • Isabel Sargent, Ordnance Survey • Seb Lessware, 1Spatial | Moderator: Léa Bodossian, EuroGeographics |
| 16:55 | Close Day 1 | Léa Bodossian, EuroGeographics |

| Day 2 10:00 – 12:30 (CET) | | |
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| 10:00 | Welcome to day 2 | Carol Agius, EuroGeographics |
| 10:10 | Global challenges of AI, a perspective from AIDA | Marcus Scheuren, European Parliament Special Committee on Artificial Intelligence in a Digital Age (AIDA) |
| 10:40 | Future Trends | Christin Walter, Ordnance Survey, Great Britain |
| 11:00 | Key research topics | Joep Crompvoets, EuroSDR |
| 11:10 | AI activities at IGN-F | Matthieu Porte, IGN, France |
| 11:30 | <i>Comfort break</i> | |
| 11:40 | Using AI to create data for policy makers | Iris Reimerink, Kadaster Netherlands |
| 12:00 | <p>Panel Discussion: The future of AI for NMCAs? Next steps</p> <ul style="list-style-type: none"> • Michael Hovenbitzer, BKG, President EuroSDR • Marcus Scheuren, AIDA • Rico Richter, Point Cloud Technology GmbH • Norbert Haala, Institute for Photogrammetry, University of Stuttgart <p>- an interactive question/comment session using slido Q&A/polls</p> | Moderator: Joep Crompvoets, EuroSDR |
| 12:30 | Close workshop | Léa Bodossian, EuroGeographics Joep Crompvoets, EuroSDR |