

Newsletter #9 May 2019

RANGER

RAdars for loNG distance maritime surveillancE and Search and Rescue opeRations



www.ranger-project.eu

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For more Information

Please visit the RANGER website www.ranger-project.eu

You can also keep up with more of what is happening at RANGER project by following us on:



Dear Readers,

Welcome to the ninth issue of the RANGER newsletter. RANGER is a 42-month European project, co-funded by the European Union's Horizon 2020 research and innovation programme. The consortium comprises 10 partners from 7 countries: a balanced blend of Radar technology industrial organizations, academic/research institutes, high-tech SMEs, and highly relevant end-user organizations. RANGER combines innovative Radar technologies with novel technological solutions for early warning, in view of delivering a surveillance platform offering detection, recognition, identification and tracking of vessels, beyond current radar systems' capabilities, thus drastically improving the response and intervention capacity of European Search and Rescue operations.

This issue features an article about Privacy Impact Assessment (PIA) and an article about the 1st Maritime Situational Awareness Workshop (MSAW) 2019. It also includes project news and updates as well as related conferences & events.

Enjoy reading and don't forget to visit our website for more information!

The Project Coordinator



2nd RANGER Review Meeting

7 February 2019 | Brussels, Belgium

On the 7th of February 2019 the RANGER project partners met in Brussels, Belgium for the 2nd review meeting. The coordinator and project partners provided an in-depth update of the progress of the action and presented the work that was performed in each work package, highlighting the major achievements and results. Special emphasis was given in the positive results derived from the 1st RANGER Pilot demonstration which was held few months ago. The project officer and reviewer, showed great interest in the work of the RANGER project and provided valuable feedback. We are proud to say that the review was totally successful and we are looking forward to continue with the last and most important period of the project in which 3 more Pilot demonstrations are going to be held.

One day before the review meeting, on 6th of February, the RANGER project partners met in Brussels in order to rehearse all presentations and got prepared for the review meeting.











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Article







RANGER 2nd French Pilot Demonstration preparations

16 May 2019 | France

The preparations of the RANGER team for the 2nd French Pilot Demonstration that took place on 16th May 2019, off the shore between Marseille and Port-Vendre, in France, had been in full progress for several days. The RANGER Platform and the Radars (PE-MIMO and OTH Radar)were integrated and tested; vessel detection and tracking, Data fusion, Machine Learning, Early Warnings, integration with AIS, legacy radars and satellite data as well as integration with the Greek CISE node had already been accomplished beforehand. The control room, from which the consortium is monitoring the demonstration, had been located at Diginext premises in Aix-En-Provence. The 2nd French Pilot was a great chance to demonstrate how the RANGER platform works through several demonstration scenarios that are executed aiming at testing and validating the capabilities of the RANGER system in real environment conditions.

You will get fully informed with all the details about the 2nd French Pilot in our next issue!

RANGER 1st Pilot Video

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During the realization of the 1st RANGER Pilot Demonstration in October 2018 the RANGER team created a wonderful video. Watch <u>it</u> and experience the RANGER adventure! Updated RANGER leaflet

The updated RANGER leaflet is available on RANGER website <u>here</u>

RANGER and the Privacy Impact Assessment (PIA)

by Tuomas Tammilehto, Laurea University of Applied Sciences.

RANGER aims to be resolve tangible challenges of today's maritime surveillance world as well as those of the future. This means thus that RANGER solutions cannot be not developed in a void, i.e. not taking into account how the European societies are changing. has an updated legal and technical knowledge base that includes the legal points ensuring the lawfulness of processing and the rights of the data subjects. It also has a contextual knowledge base, available along all the steps of the PIA, adapting the contents displayed.

Arguably, three intertwined factors are prioritising The CNIL tool is a modular tool, too. It is designed to the importance of privacy when designing any new help to build compliance of any solution, thus could be solutions. Firstly, there are significant changes in the customised to the specific needs of RANGER. Further, society: privacy has become something valuable. it is published under a free licence, therefore saving One indicator of this are the new legislation around European taxpayers money – another good reason it, for example the new General Data Protection for RANGER to use it. Regulation that became effective in May 2018. The The RANGER PIA, or more precisely the first PIA, since second manifestation of the importance of privacy the objective is to do several rounds of them, e.g. are the European Commission's statements on this for each pilot, was a joint effort of the coordinator, subject. For example, respecting personal privacy has technical partners and Laurea, but included also the become a requirement in European funded projects. help of the advisory board and ethical and data privacy Thirdly, the RANGER consortium itself has realised the experts. The first PIA concentrated on the first French importance of privacy when designing the solutions, pilot, but naturally, it serves the whole project and and for example, the advisory board and ethical and end-results. It examined, for example, the different privacy experts of the project have recommended to data processed, and answered guestions such as how take privacy issues into account. Thus, RANGER has the data subject were informed etc. adopted a so-called privacy by design approach.

The RANGER PIA revealed, that during the first-phase One efficient and functional way when tackling pilot, the only personal data processed was AIS data, possible privacy concerns is to perform a so-called and that from this data, persons can be identified Privacy Impact Assessment (PIA). This assessment only indirectly. RANGER itself does not process any looks into every aspects of the RANGER solutions additional data, which could make the identification from a data and other privacy point of view, and thus possible. Thus, the potential risks related to data identifies possible problem areas. RANGER Privacy subject rights are negotiable and/or limited: the Impact Assessment used a specific tool designed for challenges lay in illegitimate access to data, unwanted this purpose. The software tool was developed by modification of data, and data disappearance. Another French Commission Nationale de l'Informatique et finding was that, obviously, general data security des Libertés (CNIL), and it is available online for free of applies also to the personal data protection. charge. The reasons why RANGER chose this was not Based on the PIAs outcome the following activities only that it was recommended by the ethical experts, are to be taken into account: First, a Data Sharing but more so because the CNIL PIA tool was designed Agreement between the RANGER partners (especially around three principles, that suited RANGER well. for those who are joint controllers), and secondly, First, the tool has a didactic interface to carry out PIAs: anonymization procedures to put in place regarding to the tool relies on a user-friendly interface to allow possible personnel data of the operators of RANGER. for a simple management of the PIAs even for nonexperts. Second, it clearly unfolded the privacy impact All in all, PIA is a very important tool to ensure to make assessment methodology step by step. For example, RANGER as a successful and applicable solution, and it has several visualisation tools that offer ways to RANGER is very proud that it takes privacy concerns guickly understand the risks around privacy. Third, it seriously.

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1st MARITIME SITUATIONAL AWARENESS WORKSHOP (MSAW 2019)

Science and technology meet operational needs



The RANGER consortium is proud to announce that along with its partner NATO Science and Technology Organization Centre for Maritime Research and Experimentation (STO-CMRE) are organising a workshop to present and discuss advanced technologies, innovative concepts, and emerging scientific challenges with respect to current and future Maritime Situational Awareness (MSA) operational needs. MSAW 2019 foresees productive collaboration and synergistic discussion among MSA specialists from technical and nontechnical areas. The workshop is going to be held on 8-10th October 2019 in Lerici (La Spezia), Italy.

Objective

Focusing on Maritime Situational Awareness, the objective of MSAW 2019 is to bring together scientists, engineers, researchers from scientific communities with national and international authorities, end users and operators, and industrial representatives. MSA specialists will present and discuss scientific and operational challenges, advanced technologies and knowledge gaps, in order to facilitate future collaboration and research activities. MSAW 2019 encourages contributions from EU H2020 projects, as well as other research initiatives, to present on-going progress, results, and/or live demos. The topics are available here

Instructions for authors

The Programme Committee invites scientists, engineers, managers and operators from governments, military, academia and industry to submit manuscripts to be considered for the

MSAW. The papers should describe the scope of the contribution, the relevance to the meeting in line with (but not limited to) the MSA topics outlined in this announcement for paper, aim, method, results and conclusions of the work. Inclusion of figures and/or photographs to support the work is encouraged.

Submissions content

- Title of the abstract
- Authors names, affiliation and email address
- · Manuscript between 2 and 5 pages, including figures and bibliography
- Authors of selected papers will be invited to send a final version of their work together with the copyright form, following the instructions available here.

Accepted papers will be presented at the MSAW and published in the MSAW proceedings.

Important Dates

- 31 May 2019 Paper Submission
- 30 June 2019 Rejection/Acceptance Notification
- 30 June 2019 Registration Open
- 15 July 2019 Final Version and Copyright Transfer
- 08 Sep 2019 Registration Closed

The call for papers is available here



https://spie.org/conferences-and-exhibitions/security-and-defence?SSO=1



International Radar Conference 23-27 September 2019, Toulon, France https://www.radar2019.org/



Pacific International Maritime Exposition 8-10 October 2019, Sidney, Australia https://www.pacificexpo.com.au/Index.asp



Milipol 2019 19-22 November 2019, Paris, France https://en.milipol.com/



17-21 February 2019, San Francisco, USA

http://isscc.org/

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SPIE Security & Defence 2019

9-12 September 2019, Strasbourg, France

ISSCC 2019 IEEE International Solid-State Circuits Conference

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For more Information

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THE CONSORTIUM





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