



Activities during June are epigrammatically are presented below

E-COMPLIANCE PROJECT



The e-Compliance project has completed its final demonstration in Riga, Latvia. All relevant results (including electronic certificates, PCS integration, and consistent creation of regulations, port/ship integration and an electronic SMS) were presented to the maritime community.

After final review taken place on Brussels project on was successfully completed. All deliverables have been downloaded in project web [place](#)

The demonstration video may be viewed [here](#)

INCASS PROJECT

INCASS 9TH technical meeting was taken place in Athens at Glafcos premises on 2ND of June. The Zim Luanda case study has been presented by Varelas.

INCASS project participated in Posidonia exhibition held in Metropolitan Expo in Athens, Greece.



At the beginning of the workshop, INCASS project coordinator, Dr Iraklis Lazakis, provided an overview of the scope and aims of the project. Following that, Dr Gerasimos Theodoratos presented results from the Structural Reliability Assessment (SRA) tool developed for the structural monitoring of marine vessels. Mr Konstantinos Dikis continued by showcasing the Machinery Reliability and Predictive Assessment (MRA) tool,

presenting results from both simulated and actual scenarios. Finally, Mr Leonidas Drikos presented results obtained from the intelligent monitoring systems developed through the INCASS consortium. Emphasis was given on the virtual inspection tools and the robotic platforms (crawlers, quadrotors) developed. The workshop's presentations were followed by a lively open discussion where workshop audience provided valuable feedback and commended on the work done so far.

SEAHORSE PROJECT

Seahorse workshop and PSC meeting is hosted at our premises on June 1st . Crew resilience evaluation tool is presented by F. Oikonomou. Three papers were submitted to be presented on sep Glasgow conference

DRC also participated in Danaos User Meeting, SHOPERA WP6 meeting, POSIDONIA event and 5th HELORS international conference

5th International Symposium and 27th National Conference on Operational Research



Piraeus University of Applied Sciences (Technological Education Institute of Piraeus)
Aigaleo - Athens on June 9-11, 2016



Applied Operational Research award is going to Prof. Takis Varelas

In open ceremony of 5th International Symposium in Athens on 9th June HELORS awarded with the highest distinctions **Professor Sachinids Nikolas** of Mellon University USA and **Professor Takis Varelas of Danaos Research Centre** in recognition of their outstanding work in bona fide and applied operational research respectively.

The introductory award winners' presentation was given by **HELORS President Professor John Psarras** and is appended.

Taking the speech Professor Varelas took the opportunity to express his compliments to his colleagues Professors *J. Dimotikalis, I. Lazakis, S. Archontaki, M. Livadioti and F. Oikonomou*, to underline the Niels Bohr measurement principle "if something cannot be measured then does not exist" and to remind the **Hikmet** poem "The most beautiful seas are those we not crossed yet".



The 5th international conference open ceremony may be viewed [here](#)

Minimizing subjectivity noise at SEA (Seafarers' Axiology)

The Archontaki Varelas Livadioti paper "Minimizing subjectivity noise at SEA (Seafarers' Axiology)" within the content of SEAHORSE project was presented in the conference and is published in the "book of proceedings ISBN: 978-618-80361-6-1"



The book may be navigated by click [here](#) and corresponding video may be viewer clicking [here](#)

Minimizing subjectivity noise at SEA (Seafarers' Axiology)

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Abstract

Evaluation process is widely used to assign values for the objects of a given attribute set. For instance attributes may be quality, performance, knowledge or efficiency and objects may be human resources, processes, suppliers or products. Value assignment is not enough. Measure is required. Measure is the isomorphic transformation of value in an axiology, ranking system (value and ordering). The proper crew axiology in shipping industry is a typical multi-attribute decision making tool and axiomatically is considered as one of the most significant key success factors. In this respect shipping applies more or less sophisticated appraisal systems and based on them, attempts to find the proper officer for a specific activity among several eventual alternatives. In this work we present the implemented SEA (Seafarer Axiology) artificial intelligent appraisal system. The main novelties are: the incorporation of homo complexus non-linear thinking, the system transformation from one (attributes per seafarer) to two dimensions (and seafarers per attribute), the best fitted normalization method suggestion, and the utilization of group evaluation consensus degree. This innovative approach minimizes the subjectivity noise. Finally the system is trained and recalibrated by extracting decision maker's expertise using multi-attribute group preference techniques. The structure, the results of the formal SEA two dimensional measurement model is presented and the concept of the traditional in use ranking systems withdrawal is proven

KEYWORDS: Measurement theory, MADM, TOPSIS, Normalization

The Varelas introductory presentation

Ο Τάκης Βαρελάς αποφοίτησε απο το ιστορικό 2^ο Γυμνάσιο Αρρένων Αθηνών , γνωστό σαν « βίλλα Αμαλίας» το 1968 . Είναι ο **πρώτος των πρώτων στις πανελληνιες εισαγωγικές εξετάσεις της ίδιας χρονιάς** και του τμήματος προγραμματιστών του ΕΛΚΕΠΑ. Σπουδάζει υπότροφος του ΙΚΥ Χημεία στο Πανεπιστήμιο Αθηνών και αποφοιτά πρώτος το 1973 Το 1976 πρωτεύει στις εξετάσεις των μεταπτυχιακών υποτροφιών εξωτερικού του ΙΚΥ. Ολοκληρώνει τις μεταπτυχιακές του σπουδές στο Worldwide Education Centre (Princeton) σε System Engineering το 1979 και στο Πανεπιστήμιο της Νότιας Αφρικής με διδακτορικό σε data metrics (with distinction) το 1982.

Τεχνικός Διευθυντής της ιστορικής **Sperry Univac** απο το 1976 για δέκα χρόνια υλοποιεί μεγάλα έργα πληροφορικής (ΟΤΕ, Αλουμινιο της Ελλάδας, ΕΣΥΕ, ΜΕΤΚΑ, Χαλυβουργείο Βορειου Ελλαδας, LEVIS κ.α).

Καθηγητης στο **Πολυτεχνείο Κρήτης** απο την εναρξη λειτουργίας του το 1985 και για δέκα χρόνια διδάσκει πληροφορική, χρονικό προγραμματισμό έργων, τεχνητη νοημοσύνη, εποπτεύει δεκαδες διπλωματικές εργασιες και διευθύνει το πληροφορικο κέντρο (1996).

Από το 1987 μεχρι το 2004 ειναι ο CIO (Chief information Officer) της Thenamaris Ships Management SA ενώ απο το 2004 μεχρι σήμερα διευθύνει το κέντρο έρευνας της Danaos Corporation.

Επικεφαλής της ερευνητικής ομάδας της Danaos συμμετέχει στη υλοποίηση 22 ερευνητικών έργων με 10 Μ€ fund απο την Ευρωπαϊκή Ενωση συνολικού budget 80Μ€ με γνωστικά αντικείμενα επιχειρησιακής έρευνας, διοικητικής επιστήμης, πληροφορικής στο τοιμέα των μεταφορών σε θεματικές ενότητες πολυκριτηριακής βελτιστοποίησης, δυναμικού προγραμματισμού, big data analytics, internet of things , calculus of variation, simulation κ.α

Τα προϊόντα της έρευνας εντάσσονται στο danaos@ERP σύστημα και αξιοποιούνται worldwide προβάλλοντας διεθνώς την ελληνική εμπειρογνωμοσύνη

Η περιπλανηση του στη εφαρμοσμένη έρευνα επικεφαλής ερευνητικών ομάδων σημαδεύεται απο σημαντικές διακρίσεις και χρηματικά βραβεία αριστείας όπως

Franz Edelman award winner – Franz Edelman academy laureate 2012. Η ανωτάτη διάκριση στην επιχειρησιακη έρευνα απο τον INFORMS (Institute of operation research and management science). Μια απο τις δυο φορές που βραβεύται ελληνική συμμετοχή στη 45χρονη διαδρομή του διαγωνισμού γαι το έργο **ORISMA** (operation research in ships management)

1st Greece innovates applied research competition winner 2011 για το έργο **“Emulation in ships management** “από τον ΣΕΒ + Eurobank

EU ICT Prize nominee 2007 για το project FP5 SEAROUTES απο την ΕΕ

6TH International CITIS 2002 (Communications and information technology) innovation award winner για το έργο “Managing IT having IP in mind” by LLOYDS & INMARSAT.

Είναι συγγραφέας τριών βιβλιων , εχει 60 δημοσιεύσεις , έχει προσκληθεί σαν key-note speaker σε δεκάδες συνέδρια και έχει δώσει διαλέξεις σε πανεπιστήμια και ινστιτούτα όπως το University of Strathclyde , International maritime university, University of Piraeus κ.α
Μέλος : EEEE, IEEE, ACM, Who-is-who of professionals, EEX, INFORMS academy