



LogDynamics

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News

From the PhD in the Logistics Graduate School at the University of Bremen to the Professorship in Brazil

About a year after successfully graduating from the International Graduate School for Dynamics in Logistics (IGS) Dr.-Ing. Enzo Morosini Frazzon was appointed to a professorship at the Federal University of Santa Catarina. After four years of doing research at the University of Bremen the Brazilian-born returns to his home country. As of 1st of August 2010 he will take up the employment in the faculty of Production Engineering.

Within three years Frazzon successfully finished his PhD thesis on global logistic systems at the IGS. Dr. Ingrid Rügge, manager of the IGS, compliments the young researcher: "Graduating in an engineering science within three years is already an enormous accomplishment but doing it yet in two foreign languages is remarkable. I am very proud that the IGS was able to contribute to that!" For another year after his graduation Dr. Frazzon held a postdoc position at the Bremen Institute for Production and Logistics (BIBA). During this time he established co-operations with universities in Brazil and was involved in numerous international projects. "These co-operations mean an important step towards internationalization of logistics research. They create a large added value for the BIBA and the University of Bremen and will be continued in future via the existing networks", says Prof. Dr.-Ing. Bernd Scholz-Reiter, spokesman of the IGS.



With the increasing dynamic of globalization the complexity of logistic problems is growing as well. The IGS meets this challenge with practical, interdisciplinary and cross-cultural research. Since mid-2005 the IGS gives excellent scientists from around the world the opportunity to take part in an efficient, structured doctoral programme. Currently seven female scientists and eight male scientists are tutored across disciplines and institutions by seven professors at the University of Bremen. In the core area of logistics the faculties Physics/Electrical Engineering, Mathematics/Informatics, Production Engineering and Economic Science co-operate as Bremen Research Cluster for Dynamics in Logistics (LogDynamics). Enzo Frazzon was the second IGS graduate; by now there are seven, two of which also finished their PhD within three years. Dr. Rügge points out: "The success of our structured doctoral programme is very impressive!"

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LogDynamics Spokesman Professor Bernd Scholz-Reiter Re-elected to DFG Executive Committee

The executive committee of the German Research Foundation (DFG) is the highest statutory body of the biggest research funding organisation in Europe – and with Professor Bernd Scholz-Reiter a Bremen professor continues to be a part of it. He is one of the four members of the ten-person DFG Executive Committee having been re-elected for a second three-year period of office in July. Scholz-Reiter represents the Engineering Sciences and has been the head of the senate panel "Research Perspectives" since 2007. Apart from being a testament to Professor Scholz-Reiter's excellent academic expertise, this election once again supports the excellent reputation of the researchers of the faculty Production Engineering and the University of Bremen as a whole across Germany.

Since 2000 Bernd Scholz-Reiter has been at the University of Bremen as a professor of Planning and Control of Production Systems at the department of Production Technology. At the Bremen Institute for Production and Logistics (BIBA) Professor Scholz-Reiter works in the fields of both applied and industrial contract research. Born in 1957, Prof. Dr.-Ing. Bernd Scholz-Reiter studied economic engineering with a focus on mechanical engineering at the Berlin Institute of Technology. After his graduation in 1990 he first went to the USA as IBM World Trade Postdoctoral Fellow and worked as a research assistant at the Berlin Institute of Technology. In 1994 he became professor of Industrial Information Technology at the University of Technology in Cottbus. From 1998 until 2000 he concurrently held the position of Head of the Fraunhofer Application Centre for Logistics System Planning and Information Systems in Cottbus. Scholz-Reiter is a member of several academic organisations. He is spokesman of the LogDynamics Research Cluster of the Collaborative



a member of several academic organizations. He is spokesman of the LogDynamics Research Cluster, of the Collaborative Research Centre 637 as well as of the International Graduate School for Dynamics in Logistics .

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New Research Project in Cooperation with BIBA Started: Transparent and Cross-company Manufacturing and Logistics Control in the Automotive Industry

For a competitive advantage of the German automotive industry:
The joint research project „RFID-based Automotive Network (RAN)“
funded by the Federal Ministry for Economics and Technology



(BMWi) develops standardized methods and approaches for radio frequency identification (RFID) based process controlling in manufacturing and logistics. The main objective is to find a standard for an industry-wide implementation. The BIBA – Bremer Institut für Produktion und Logistik GmbH at the University of Bremen contributes with ideas from the fundamental research. The key task of the institute is to develop concepts for hybrid process controlling and their implementation in complex networks of the automotive industry. The background for this research is provided by the results of the Collaborative Research Centre 637 “Cooperating Logistic Processes – A Paradigm Shift and its Limitations” at the University of Bremen, where concepts and methods of autonomous control in manufacturing and logistics have been researched since 2004.

The project RAN will provide standardized methods for an efficient information exchange close to real-time for the entire automotive industry. This standard will be developed on the basis of RFID-technology and by the use of an infobroker-concept. Furthermore, the project RAN will lead to the first industry-wide agreement about standardized methods including all companies involved in the value chain. Exemplary for all distribution processes, the prototypical implementation will be shown on the cross-continent supply chain from the Daimler AG car factory in Tuscaloosa (USA) via the car terminal of the BLG LOGISTIC GROUP in Bremerhaven to the Mercedes car dealer in Germany. This project will develop the Auto-ID-prototypes based on existing norms, adjust them and test in field. Beside the “smart” distribution label which breakthrough is arranged by RAN, the following tests are planed: RFID-gates for the identification of cars and trucks, a wearable-computing system as well as a stationary tracking system for an automated localization of car movement.

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Logistic for Life: First Results of the Newly Started Coordinated Action for the Identification of Best Practices in the Logistic Available

Logistics for LIFE is a coordinated action that aims at bringing together leading logistic companies, technology providers and research organizations working on innovative ICT solutions to ensure long-term sustainability of the logistic industry by increasing its operational efficiency. The project is motivated by freight transport heavy reliance on fossil fuel, its contribution to CO2 emissions and by its impact on the environment and quality of life. These issues are counterbalanced by considerations specific to the logistics industry, where attempts to direct cargo towards environment friendly transport modes are failing to meet expectations and firms face problems of volatile fuel prices, infrastructures saturation and low margins typical of a commoditized sector.



The target group of for the project is industrial users who look for ICT supported solutions for getting their fright transport more energy efficient and hence more environmental friendly. Most of the stakeholders in the logistic sector are micro, small and medium sized companies with low access to solutions coming from research projects. Logistic for Life has now published their first results - one report in which the results out of several research projects and industrial initiatives have been clustered to different sustainability criteria. This collection will at a later stage in the project be searchable in a database and matched to a framework, which is based upon an already existing framework, which can be found in the second report available. New results will be presented at the 3rd European Conference on ICT for Transport Logistics (ECITL '10) which will be on the 4th and 5th November 2010 in Bremen, Germany (www.ecitl.eu).

The consortium believes that it is important to involve the user of such potential solutions, since they know their requirement on ICT-based systems for energy efficient freight transport at the best. Consequently, the consortium has, together with the EURIDICE project launched a forum, the Intelligent Cargo Forum, in which all results as well as the possibility for taking part in the discussions on the topic. This forum can be visited at: www.intelligentcargo.eu. You may download the reports under: www.intelligentcargo.eu/node/39. You are also welcomed to join our group at LinkedIn. Logistic for Life is a coordination action supported by the European Commission in the 7. Framework Programme (Logistics for LIFE Coordination Action – ICT 248338).

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RFID Mittelstandsaward 2010 Prize for Innovative RFID Solutions in the Medium-Sized Business

For the second time the network Electronic Business Connections and the project "RFID for small and medium-sized businesses" are offering the 'RFID Mittelstandsaward' this year. The prize will be awarded together with the Bundesverband IT-Mittelstand (BITMi formerly VDEB). In search of user- and customer-oriented RFID-solutions which prove themselves by their innovation and cost-effectiveness, the competition aims at awarding innovative small and medium-sized businesses. All businesses

- which have successfully implemented or integrated a RFID-application,
 - whose application emphasizes the benefits of RFID to other SMBs,
 - whose implemented application is not older than three years,
 - with less than 500 employees and an annual turnover of less than 50 million Euro, unless the solution is clearly transferable to small and medium-sized businesses,
 - whose headquarters are in Germany
- can enter the competition. The assessment is based on factors, such as level of innovation and creativity. It also considers the way the solution was implemented and the benefits it generated for the business. Another crucial factor is the transferability of the solution to other applications and users.

The winner of the 'RFID Mittelstandsaward 2010' receives prize money of 1.000 Euro. In addition, a film is made, presenting their RFID-solution. The winners of the second and third prize are published and receive a certificate. All winners get the possibility to advertise their award. The award ceremony takes place on 2nd of December 2010 in Stuttgart in the course of the RFID User Symposium 2010, themed "RFID for Small and Medium-Sized Businesses". Application can be submitted until 17th of October 2010 via the webpage www.e-business.iao.fraunhofer.de/rfid_award.

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Events

„Growing Intelligently" The 27th German Logistics Congress

Date: 20th – 22nd of October 2010
Venue: Berlin

The 27th German Logistics Congress of Bundesvereinigung Logistik (BVL) themed "Growing intelligently" will be held from 20th

The 27th German Logistics Congress of Bundesvereinigung Logistik (BVL) themed "Growing intelligently" will be held from 20th to 22nd of October in Berlin. A fundamental idea behind the German Logistics Congress is and was to disseminate logistics knowledge of experts to the general public. From the start, establishing a platform for making business contacts and initiating business deals played an important role. Since 1985 the congress is also accompanied by a trade exhibition.

Also this year the Bremen Research Cluster for Dynamics in Logistics will be represented within the trade exhibition demonstrating innovative solutions for the logistic sector. Among others exhibits the Human Data Acquisition Transporter (HDAT) – a Segway equipped with RFID-system will be presented. It can be used for data acquisition processes at automotive terminals and in warehouses.

All interested participants of the conference are warmly invited to visit us at the **LogDynamics booth** number 22 in the Pavillon (PV/22).

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EU-Project Final Conference: Laboranova Shows How to Implement the Early Innovation Phase in the Future

There is a challenge or a problem and in order to solve it various competences are required. Ideas are being searched – within the own business, at co-operation partners', in other businesses and countries. How do you pool them in a wise, fast and preferably simple manner, achieving optimal results? For 49 months 19 partners from nine nations engaged in this problem within the project "Laboranova" and presented their developments on 8th of July 2010 in the course of the final conference at the Bremen Institute for Production and Logistics (BIBA) at the University of Bremen. It is a 10,3 million Euro project and it was funded by the EU with an amount of seven million Euro. It ran from 1st of June 2006 until 30th of June 2010 and was coordinated by researchers from the University of Bremen – managed by Prof. Dr -



... since 2008 until 2011. In 2010 and 2011 it was coordinated by researchers from the University of Bremen. Managed by Prof. Dr.-Ing. Klaus-Dieter Thoben, director of the BIBA research department ICT Applications for Production (IKAP) as well as of the department Integrated Product Development of the university faculty Production Engineering.

Within international co-operations models, processes and tools were developed. The work of the "Laboranova" project partners from research and industry was aimed at exploiting and supporting social and technical conditions, capacities, qualifications and common networks to systematically generate innovative ideas and to jointly make use of them. The methods and tools developed within "Laboranova" support the concept of an open innovation process. "The Living Labs represent special application core areas", explains Dipl.-Wi.-Ing. Alexander Hesmer, "Laboranova" project leader at the BIBA. Living Labs are, to put it simply, very openly designed knowledge work networks. Their main objective is an effective collaboration and the optimal use of internal and external information. Major problems regarding the Living Labs are, amongst others, the organisation and structuring of information flows. This requires information and communication technologies (ICT).

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Finding Out More about their Use: Going beyond the Mere Making of Products

Whether dishwasher, airplane, television or ship – also after its development, production and placement on the market a product has a life. At its users' up to its recycling or its incineration. The view on the entire life cycle of a product is becoming increasingly significant. Experts in research and industry are therefore engaging in the Product Lifecycle Management (PLM). From 12th to 14th of July 2010 PLM-experts from around the world came together for the PLM10 at the Bremen Institute for Production and Logistics (BIBA) at the University of Bremen.



The host of this expert conference was Prof. Dr.-Ing. Klaus-Dieter Thoben, director of the BIBA research department ICT Applications for Production (IKAP) as well as of the department Integrated Product Development of the university faculty Production Engineering. After India, France, Italy, Korea and England, this year the conference took place in Germany for the first time. More than 100 researchers, developers and users from 17 countries took part. The over 70 lectures discussed all PLM- research and development areas and illustrated the current state of the art. Knowledge and information management as well as the organisation of co-operations across companies were highly represented topics. And there was a big and growing interest in intelligent products and sustainability, also in logistics.

"PLM describes a strategic concept for managing a product throughout its entire life cycle", explains Thoben. "It includes supporting IT-systems as well as methods, processes and structures. PLM does not mean a closed system or a purchasable IT-solution but it is a procedure that implements suitable technical and organisational measures in a business-specific way."

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Calls

Call for New Members: RACE NetworkRFID Invites to Join the Network

The RACE NetworkRFID project has been established by the European Commission for the benefit of all European Stakeholders in the development, adoption and usage of RFID. Its aim is to raise awareness on the benefits of RFID across Europe, as well as contribute to the technological uptake and deployment of the technology across diverse sectors in Europe.

RACE would like to invite you to join the network. There is no membership "fee." As a member you are able to access critical information on EU policy issues and benefit from the significant awareness initiatives the network is developing with governments, prospective user organizations and individual SMEs across the whole 27 Member States. You are invited to the twice yearly General Assembly meetings – providing in itself a great networking opportunity. And you are also welcome to participate in any of the work packages. The EU recognize RACE as one of its most important tools in its efforts to position the European Union as a world leader in RFID excellence.

The network's target is to define a roadmap which addresses the barriers to adoption and deployment. It will promote best practices, case studies, reports, guidelines, events and services to increase awareness at European and national level. RACE focuses attention upon the SME business communities and the potential that exists within them for product, process, and services innovation. It addresses the requirements of policy-makers and the public to ensure that both businesses and consumers benefit from RFID with a specific focus on consumer trust and acceptance, innovation and enterprise. In the coming months RACE expects to enrol all the leading RFID players from across Europe. The application form you will find here www.race-networkrfid.eu/component/content/article/17. It will take 10 minutes to complete. RACE networkRFID looks forward



www.race-networkrfid.eu/component/content/article/17. It will take 10 minutes to complete. RACE networkRFID looks forward to welcoming you into membership.

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Details: www.race-networkrfid.eu

Call for Submissions: Special issue of the International Journal of RF Technologies: Research & Applications on RFID AND THE INTERNET OF THINGS IN EUROPE

To be published by IOS PRESS

Deadline for full papers: September 15th, 2010

The RACE networkRFID (www.race-networkrfid.eu) is designed to become a federating platform to the benefit of all European Stakeholders in the development, adoption and usage of RFID. The network considers its mission is to create opportunities and to increase the competitiveness of European Member States in the area of RFID thought leadership, development and implementation. At the same time it will position RFID technology within the mainstream of information and communications technology (ICT).

The Special Issue of the Journal for RF Technologies: Research and Applications is focused on research in the fields of RFID and the Internet of Things in Europe.

MISSION AND OVERALL OBJECTIVES FOR THE SPECIAL ISSUE:

The mission of the Special Issue is to provide an overview on the ongoing research activities concerning RFID and the Internet of Things.

The overall objectives are:

- To provide a European perspective on research and development;
- To discuss European stakeholder involvement, ethical issues and governance
- To evaluate the impact of RFID and the Internet of Things on people;
- To present new business developments and;
- To build a bridge between research and practice in Europe.

TARGET AUDIENCE:

The Special Issue is intended to support a professional audience of researchers, top managers and governmental institutions.

So even though we will require a professional scientific contribution the style of writing should address a wider audience.

Submissions need to contribute new and original research and review articles.

We specifically welcome contributions from ongoing European research projects.

Please read the detailed style guidelines at: www.iospress.nl/loadtop/load.php

If your contribution does not have a clear focus on European research, please consider a submission to the standard Journal issues. Please indicate in your submission, if you want to submit your contribution to the Special Issue.

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit camera-ready papers on or before September 15th, 2009. This proposal should be submitted to: www.iospress.nl/loadtop/load.php

All submitted chapters will be reviewed (double-blind review).
The Special Issue is scheduled to be published in Q2 2011.

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