



# FROM VISION TO DECISION

## NEWSLETTER

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### Dear MedViz Supporter

In the current issue, we are happy to publish two exclusive interviews from Department of Informatics, UiB. The first is a following up of our news in June, with a closer presentation of Elite Professor Michael Fellows. The second interview is a talk with Professor Helwig Hauser who is a central player in the MedViz Leadership Team, and who also has sheared his thoughts about how he foresees MedViz' future. But first we give you a glimpse from the latest Euroson Conference. We also kindly remind you that the three upcoming MedViz Seminars will give you the final results from three MedViz Lighthouse Projects in November and December.

### EUROSON 2016

by Birgitte Berentsen

The EUROSON Conference was arranged in Leipzig, Germany in late October for 2000 participants. In the pancreas session, both PhD Trond Engjom and PhD Kim Nylund gave nice presentations about abdominal ultrasound of pancreas, and perfusion measurements in pancreas with contrast enhanced ultrasound (CEUS), respectively. Professor Adrian Saftoiu from Romania gave a presentation about elastography of pancreas. Saftoiu described the method as an additional tool for characterizing pancreas lesions, and which in some cases might be used in differential diagnostics between chronic pancreatitis and adenocarcinoma. Some small adenocarcinomas might appear as soft by the application of elastography. However, if you find hypovascular arterial phase by CEUS and increased hardness by elastography with EUS, you might get a good indication of malignancy for FNA-negative tumors. Our local research fellow MD Anesa Mulabecirovic won the "Young Investigator Award".



*The EUROSON 2016 winner of "Young Investigator Award" for the presentation «In vitro quantification of tissue elasticity using three shear wave elastography platforms on liver fibrosis phantoms», research fellow MD Anesa Mulabecirovic (left, Emiel Van Disseldorp to the right). Anesa is supervised by Professor Odd Helge Gilja and Consultant PhD Roald F. Havre.*

### Interview with the new Elite Professor of Computer Science Michael Fellows

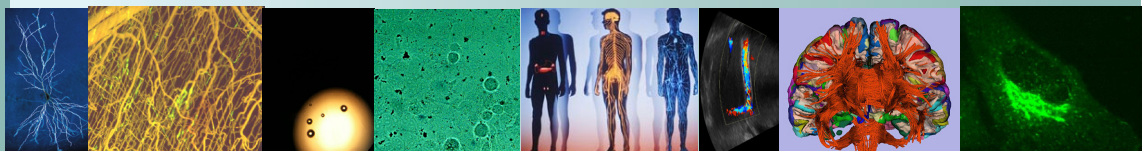
*Professor Michael Fellows, or Mike among friends and colleagues, joined UiB in January 2016, appointed through the elite "Toppforsk" programme, funded by the Norwegian government and the Bergen Research Foundation (BFS).*

-You were born in California, Mike, and received your PhD from the University of California, San Diego. Your wife, Frances Rosamond is also a computer scientist. Born in Michigan, she received her

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HELSE BERGEN  
Haukeland University Hospital





PhD from Cornell University. Most recently you both were professors at Charles Darwin University, Australia. How did you happen to come to the University of Bergen?

-We have been visiting the Algorithms Group at the Department of Informatics for the past fifteen years, and we have collaborated with everyone here. The field of Parameterized Algorithms and Complexity, the new area of theoretical computer science that I pioneered, is growing at a tremendous rate, and the Algorithms Group at UiB is the strongest research group in the world in this area. It was an honour to be offered a professorship in the group, and the most natural place for me to be, Mike says. [Read more about Mike](#)

*Michael and Frances share an office in the Informatics Department on the fourth floor of the Høyteknologisenteret I Bergen, Thormøhlensgate 55. Emails: [Michael.Fellows@uib.no](mailto:Michael.Fellows@uib.no) and [Frances.Rosamond@uib.no](mailto:Frances.Rosamond@uib.no)*

## Interview with Professor Helwig Hauser

### Background

Helwig Hauser was born in Vienna, Austria, and grew up in Mistelbach, a small city 40 km north of Vienna, in a corner of the country near the former "iron curtain". He both studied and started his career in computer science in Vienna (at TU Wien).

- Why did you go in this direction, Helwig?

- In fact, I was interested in computer science already from the age of 15, and I was further encouraged by excellent teachers like Werner Purghofer at TU Wien who taught me all I needed about algorithms and data structures. His teaching style was truly very motivating and also inspiring. Besides, both my mother and my grandfather were artists in design and painting, respectively, so I probably have some graphics in my blood, also. From my childhood on, I also had great interest in the fine arts. Throughout my studies, more and more of my time was devoted to the computer graphics area. When I took a course in fractal geometry, I started to be particularly interested in visualization, then, Professor Helwig Hauser memorizes.

- How was it to study in a large city like Vienna?



- Vienna as a student city is great and offers endless opportunities, both for learning and for recreation. Also, I always felt safe in Vienna, even though the city was and is a melting pot for all kinds of people. All groups that I was ever part of have always been very international in Vienna, and I appreciate this very much. It is wonderful to cooperate with people across all sorts of borders. My best related invention, maybe, was the Central European Seminar in Computer Graphics (CESCG) for undergraduate students, together with Andrej Ferko from Bratislava. The idea was that CESCG should be like a real conference, and the students would get all of the several days long arrangement for free. The starting point was that a group of students from Vienna were encouraged to present their work in Bratislava in Slovakia, while the students from Bratislava would come to Vienna and present, thus strengthening the cultural and scientific contact between the two closest capitals in Europe. Quickly, students from many other countries in Central Europe entered and this event is still happening with great success. Fortunately, the network continues to grow and I still have many very good relations that originate from this start, Helwig says. [Read more about Helwig.](#)

*Professor Helwig Hauser in the midnight sun near Slettnes Fyr, Gamvik, Finnmark, in June 2014*

## Upcoming events

**11. November:** [Final report from Medviz Lighthouse Project – Image-based quantitative assessment on abdominal organ function](#), by Jarle Rørвик, Erlend Hodneland, Are Losnegård and Erling Andersen. MedViz Incubator, Møllendalsbakken 7, 5th floor, 12:00-13:00.

**21. – 22. November:** [The 8th National PhD Conference in Medical Imaging takes place at Radisson Blu Royal Garden Hotel in Trondheim.](#)

**24.- 25 november:** [Nordic EUS – Bergen, Bikuben](#), Haukeland University Hospital

**02 December:** Final report from Medviz Lighthouse Project – [Multimodal imaging and ultrasound microbubble drug delivery in targeted cancer therapy](#), by Bjørn Tore Gjertsen, Emmet McCormack, Georg Dimceviski and Spiros Kotopoulos. MedViz Incubator, Møllendalsbakken 7, 5th floor, 12:00-13:00.

**16. December:** Christmas Seminar with Visual computing forum. Final report from Medviz Lighthouse Project – [Model-supported data visualization to improve the diagnosis process](#), by Helwig Hauser and Veronika Šoltészová. MedViz Incubator, Møllendalsbakken 7, 5th floor, 12:00-14:00.

**Ragnar Nortvedt**  
Program Manager

