

Stefano Forti

Curriculum Vitae

Contact Details

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Personal Information

Address
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Nationality:
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Education

Degree in Physics
University of Trento (Italy)

Professional Experience

- January 2021 – Present

Director of FBK Digital Health & Wellbeing Centre (FBK dHWP Centre). The dHWP Centre's vision looks at supporting an equitable and sustainable public healthcare system based on the pervasive use of digital technologies and AI by both empowered citizens and healthcare professionals, in the context of the 4P medicine. In accordance with FBK mission, the activities of the dHWP Centre will be focused on promoting and supporting a value-chain that combines high-quality scientific research (open and targeted) and innovation (social and technological) to have a significant impact on society (citizens and healthcare system) and market.

- January 2018 – December 2020

Head of Health & Wellbeing Line-H&WB (FBK ICT-Centre). The H&WB line has been created for improving the synergy between research and impact on the health domain. More specifically, it aims at designing and realising technological platforms based on digital medicine technologies and AI methodologies with the scope of improving the role of citizens as managers of their health data and the relations and communications with the healthcare professionals. Responsible for the overall functioning of the FBK H&WB Line, reporting to the ICT Centre Director and to the FBK Scientific Committee. Responsible for the scientific plan, the activity plan, the internal organization and the budget, which is submitted for approval to the ICT Centre Director. Management of the line of about 100 people. The Budget of the line (direct costs not including central administration costs) has been of 4.9M Euros in 2018 and 5.4M Euros in 2019 with an average percentage of self-funding of 53%.

- January 2008 – December 2020

Head of FBK eHealth Applied Research Unit/High Impact Initiative (FBK ICT-Centre). In line with the ICT Centre organization divided into three research lines and three high impact initiatives, the general aim of this unit is mainly focused on improved impact of the FBK projects and initiatives on three levels, namely: territory, market and society. Responsible for the scientific plan, the activity plan, the internal organization and the budget, which is submitted for approval to the ICT Centre Director. Management of the unit of about 40 people in 2018 and 2019. The Budget of the unit has been of 1.8M Euros in 2018 and 2.2M Euros in 2019 with a percentage of self-funding of 78.1% in 2018 and 64.5% in 2019 (incomes for 1.4M Euros both in 2018 and in 2019). Since 2017 projects grants acquisition on competitive basis from European Commission has been resulted in a total of 71 proposals submitted, 21 of which had been awarded (about 30% of success rate) corresponding to a total income of about 3.0 Million Euros. Responsible of TreC project (2008-2018).

- January 1999 – December 2007

Head of Medical Informatics and Telemedicine Unit-MIT (ICT-IRST). The MIT unit was created as an organizational and crosscutting unit, linked to the ICT-IRST divisions, aiming at designing innovative telemedicine solutions and transferring them in healthcare setting. Responsible for the scientific plan, the activity plan, the internal organization and budget. Several research and innovation projects in the field of telemedicine and medical informatics has been carried out. Among them: "Teleconsulto oncologico e telacardiologia sul territorio" funded by Italian Ministry of Health, "Teleformazione e teleconsulto in sanità: verso un management del paziente oncologico funded by EU, "eHeart Failure" funded by PAT. In 2005 launch of the spinoff "MTT Pro".

- April 1990 – December 1998

Researcher at Medical Biophysics Division (ITC-IRST). Main research interests: Study of intracellular calcium in cardiac cells through digital fluorescent videomicroscopy (digital imaging in electrofisiology), digital videomicroscopy and telemedicine (eg telepathology, teleoncology, teleradiology).

- January 1989 – March 1990

Temporary contract at Biophysics Division (ITC-IRST). Research interest: Study of intracellular calcium in cardiac cells through digital fluorescent videomicroscopy.

January 1988 – December 1989

Scholarship at Biophysics Division of ITC-IRST. Research interests: imaging on cardiac cells and study of kinetics of phototransduction in retinal rods at Physics Dpt of Genova University (Prof. V. Torre).

- June 1987 – December 1988
- **Scholarship at Istituto di Cibernetica e Biofisica (C.N.R Genova).** Research interest: electrofisiology in lipid membranes .
- May 1987

Degree in Physics with a thesis in biophysics: Metodi fluorimetrici per la determinazione di flussi ionici attraverso liposomi in presenza di tossine citologiche.

Publications and other research and innovation products

- **Scientific:**
 - **H-index:** Google Scholar h-index = 21 (January, 2021)
 - **Scientific Committees:** Member of the Organizing/Scientific Committees of the following national/international conferences: 13th edition of Pervasive Health international Conference (Trento, 2019), I Workshop Nazionale “Dal Taccuino al Personal Health Record” (Trento, 2014) Congresso 2005 AICA (Udine 2005), 8th World Congress on the Internet in Medicine (Geneva, Switzerland, 2003), 7th World Congress on the Internet in Medicine (Amsterdam, Netherland, 2002), 6th International Congress on Internet in Medicine (Udine, Italy, 2001), 4th European Congress on Telepathology (Udine, Italy, 1998) and of 2th, 3th, 6th, and 7th Italian Congress on Telepathology (Trento 1998, Milano 1999, Genova 2002, and Viareggio 2003, respectively).
- **R&I products:**
 - **TreC_FSE:** TreC_FSE is a Personal Health Record-based platform designed, implemented and validated within TreC program. On one hand, it represents the front-end of the provincial health system to deliver online services to the citizens and, on the other hand, a tool that enables every citizen to manage its own health data. TreC platform is one of the pillars on which the strategy of digital health in the Province of Trento is based. The first web version was **delivered as an APSS service in 2011** and it is currently used by over **110.000 citizens** in the Province of Trento, whereas the mobile version was released in 2018, and it is currently used by about **15.000 citizens**. Based on the TreC Platform, over the years several pilot studies have been implemented in the field of prevention and (self-)management of chronic patients. In 2020, an updated and technologically renewed version of TreC will be released as

a main output of to the Joint Laboratory (APSS, FBK, Dedagroup-Exprivia) with the aim of reaching, over the next two years, 200.000 registered citizens. Finally, the Economics Department of the University of Trento has calculated that the adoption of the TreC platform results in **economic savings of approximately 6.0 Million Euros** per year.

- **Salute+**. Salute+ is the virtual-coach based platform for educating and supporting citizen in adopting healthy life styles. In June 2018, the project has been presented by head of the Health Unit of the PAT (Assessore) at *Festival dell'Economia*. The first release of the Salute+ app was put into production for a “living lab validation” involving a large number of citizens. Nowadays, the app has been used by **3200 citizens** approximately. In 2020 a new version of the app will be released.
 - **TreC_Covid19**: in March 2020, as a consequence of the Covid-19 pandemic, in the framework of the TS4.0 joint lab between APSS and FBK, a specific app has been developed and released to provide citizens with an ad-hoc tool enabling them to access reliable and accredited information from authorized sources for the management of the disease. In addition, a tailored module of the App has been delivered to support the remote management of i) positive patients at home and ii) patients in quarantine. This module is also equipped with a chatbot for the automated collection of a number of health data and information directly from the patients (e.g. self-reported symptoms, temperature, oxygen saturation, etc.), thus supporting healthcare professionals in the management of these patients when at home. For the TreCovid19 app around 3,000 daily accesses are still reported (July 2020), with approximately 700,000 total accesses, whilst for the monitoring module over 3,500 questionnaires were collected from about **200 positive patients**.
 - **Geo_TreC** is a mobile application developed for promoting active aging through gamification (treasure hunt). The app was released to public within the Sports Festival (Trento, October 2019) and was used by **200 families**. The app was used by more than **90 delegates** from 21 different European universities involved in "Asbjorn Cup" organized by University of Trento in November 2019 within the ENAS Forum & Assembly (the European Network of Academic Sports Services).
 - **OncoSys**: a Web-based, user-centered electronic Oncological Digital Patient Record system (OncoSys), designed and realized within the Teleconsulto Oncologico project was **put into production** in July 2000 in Medical Oncology Unit at S. Chiara Hospital in Trento in order to facilitate the clinical, organizational, and administrative management of all oncological patients in the province of Trento.
 - **MTT Pro**: in 2005 launch of the spinoff MTT Pro (<http://www.mttpro.it/chisiamo.html>), founded by two researcher of FBK-MIT unit for the maintenance, evolution and commercialization of OncoSys, the platform for the management of oncological patients, designed, realized and put in production within the “Teleconsulto Oncologico e Telecardiologia sul territorio” project.
- **Awards**
 - In May 2014 TreC platform received the “ICT Innovation Award in Healthcare” by the ICT Healthcare Observatory of the School of Management of the Milan Polytechnic (PAT press release n. 1033, May 9, 2014).
 - In May 2018 TreC platform received the “Digital Innovation in Healthcare Award” (in the "Impact" section) sponsored by the Observatory of the School of Management of the Milan Polytechnic (PAT press release n. 960, May 8, 2018).

Management experience

- **Project management:** project leader of the following R&I projects:
 - **TrentinoSalute4.0-TS4.0 (2017-2019, 2020-2022)** Responsible for FBK and member of the executive board of TS4.0, the Competence Centre on Digital Health, established and financed by the provincial government, the Autonomous Province of Trento, with its own resolution n. 2412 of 20th December 2016, as the strategic alliance among PAT, FBK and APSS for fostering the adoption of digital technologies in healthcare through a systematic approach that, aligning the strategic plans of the three organizations, will allow to implement the research-innovation-production development chain and to accelerate the process from experimentation to production of technology-based innovative health services. TS4.0 also involves citizens, health professionals and sector companies according to a quadruple helix approach. In May 2020, TS4.0 has officially become a Joint Research Unit for strengthening cooperation among the institutions. Funding from PAT of **900K Euros** for a three-year period (2017-2019). In May 2020, the provincial government renewed the funding for TS4.0 for a three-year period (2020-2022), entrusting FBK with the technical-scientific and administrative management (**1.500K Euros** on Accordo di programma aggiuntivo).
 - **TreC program (2008-2018)** Project leader of TreC (Cartella Clinica del Cittadino) program, a three-stage programme, from 2008 to 2018, with the general aim of design, realize, validate and put into production a Personal Health Record Platform in the Province of Trento. Funding from PAT of about **4.150K Euros** (2.350K Euros for 2008-2011, 895K Euros for 2012-2014, 900K Euros for 2015-2018). TreC platform is one of the pillars on which the strategy of digital health in the Province of Trento is based. Over the years several proof-of-concept and pilot studies in the field of prevention and (self)-management of chronic patients have been carried out through living labs involving citizens and health professionals (Annex I).
 - **Salute+ (2018-2020)** Project leader of Salute+, a three-year project (2018-2020), established and financed by the provincial government, the Autonomous Province of Trento, with its own resolution n. 535 of 29th March 2018, with the aim of promoting healthy life style in citizens of Province of Trento. Funding from PAT of **330K Euros** for a three-year period (2017-2019)
 - **Other Projects:** Project leader of research and innovation projects in the field of eHealth and digital medicine, among which:
 - 2020: Televisita, Fondazione VRT (**53K Euros** income)
 - 2017-2020: INMP, APSS (**76K Euros**)
 - 2013-2015: CCM2012, Ministry of Health (**89K Euros** income)
 - 2003-2005: Montagne sicure, MIUR (**245K Euros** income)
 - 2002-2005: eHealthFailure, PAT (**929K Euros** income)
 - 2002-2004: e.R.ME.TE, Ministry of Health (**206K Euros** income)
 - 2001-2002: INT, Istituto Nazionale Tumori (**154K Euros** income)
 - 2000-2003: Trapianti, Ministry of Health (**34K Euros** income)
 - 1998-2000: Adapt, APSS (**123K Euros** income)
 - 1997-2000: Telme, Health Ministry, (**850K Euros** income)
 - 1998-2000: APSS (**61K Euros** income)
 - 1998-2000: SIO, APSS (**113K Euros** income)

Network of contacts in the communities of Digital Health

- **Executive committee of TS4.0** for the shared management (programming, planning and monitoring) of TS4.0. Members of this committee are key representatives of the three institutions on which TS4.0 is based, namely: the ICT Centre Director and the Responsible of eHealth unit (FBK), the Director of Research and Innovation Office (PAT), the Health Director and the Director of Technology Department (APSS)
- **Joint Laboratories with Public Bodies**
 - with **information systems department of APSS** for coordinating the activities of design, implementation, validation and put into production of the innovative solutions,
 - with the **Faculty of Law** for the study of the privacy- related aspects,
 - with the **Faculty of Economy** for the economic impact of the digital medicine (es. TreC)
- **Joint Research Unit on eHealth** with PAT and APSS for a shared participation to European calls
- Collaboration with **Public Bodies**. Among them: Ordine dei medici della PAT, Scuola di formazione specifica in medicina generale della PAT, Health Department of Emilia Romagna Region, Agenzia per l'Italia Digitale (AgID), Istituto Nazionale per la promozione della salute delle popolazioni Migranti ed il contrasto delle malattie della Povertà (INPM), ecc.
- Collaboration with **Patient Associations**. Among them: Associazione Alzheimer Trento Onlus, Associazione trentina diabete, Associazione diabete giovanile della Provincia di Trento, Associazione di Volontariato per la Tutela dei Diabetici della Vallagarina;
- Formal agreement with **Third Sector Bodies**. Among them: **Kaleidoscopio** and **FAP-Acli** (Federazione Anziani e Pensionati Acli) to carry out on-the-field pilot studies in the area of active aging.
- Formal agreement with **FateBeneFratelli Isola Tiberina**, established in 2019 for the re-use of the TreC platform by the FateBeneFratelli healthcare organization and the design and experimentation of a solution based on TreC platform for delivering remote healthcare services and for supporting self-management of pregnant women
- **Project Collaborations with Health Care organizations**
 - with **Clinical Units of APSS**, among which: diabetology, pediatry, cardiology, oculistic, nephrology, internal medicine, intensive therapy, ecc
 - with **Casa di Cura Solatrix** about the design and piloting of a digital platform supporting the remote (auto)management of obese patients
 - with **Oncological Department of IRCCS Meldola-Forlì** for a clinical trial on a remote monitoring system of oncological patient in oral chemotherapy
 - with **Azienda Ospedaliera di Vercelli** for the re-use of TreC platform
 - with **Diabetes Unit (Department of Medicine, University of Siena)** for the application of digital medicine in diabetic clinic area.
- **Co-Innovation laboratories with Private Companies**

- with **Dedagroup/Exprivia**, established in 2020 for creating continuity between research, experimentation, and realization of specific modules of TreC platform, reducing the transition time to guarantee the provision of innovative services to citizens.
 - with **GPI**, established in 2018, for the development of research and innovation activities in the field of cognitive computing and AI techniques in health domain.
 - with **BelInnova**, established in 2020 for advice activities devoted to the re-use of the TreC_Covid19 solution for the implementation of new solution “SMARTYS-COVID19”.
- **Joint PhD with University of Trento (DISI, Cognitive Science) and University of Padova**
 - Project collaboration with **Research Centres**, among which: University of Trento (DISI; Cognitive Science, CIBIO, ecc), FEM, Mario Negri Institute (Milano, Bergamo), University of Terni (Medicine), University of Padova (Psychology), University of Bologna (Medicine), Cefriel, CNR (Roma, Napoli, Cosenza), IIT, OuluHealth, NY MountSinai, ecc
 - Project collaborations with **Private Companies**, among which: P4I, GPI, Dedagroup, Exprivia, Engineering, Corehab, Neocogita, CBA, Mediaclinics, Trilogis, Expert System, XelionTech, Famebridge, , Almviva, Pevoice, Healthware, HIS GmbH, Medtronic, Novartis, J&J, Roche, ecc

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FIRMATO IN ORIGINALE

Annex I: Selected living labs (proof-of-concept and pilot studies) based on TreC platform

Over the years, several proof-of-concept, pilot studies and clinical trials have been carried out in the field of prevention and (self-) management of chronic patients. Among them, we can mention the following:

- **TreC_FSE**: a large living lab established in 2011 was conceived for the validation of the TreC_FSE app (first release), allowing online access to clinical documentation (**800** citizens involved)
- **TreC_Pediatric Asthma**: this pilot study was conducted in collaboration with the Paediatric department of the S.M. Carmine Hospital of Rovereto (TN). 3 hospital physicians and **8 children with their parents** were involved in the study.
- **TreC_Heart Failure**: this study was implemented in partnership with the Geriatric department of the S. Chiara Hospital of Trento (Medical Director, Dr. Paolo Zambaldi); **5 elderly patients and their families** were involved.
- **TreC_Peritoneal Dialysis**: this study was designed and implemented in collaboration with the Operational Unit of Nephrology and Dialysis of the S. Chiara Hospital of Trento (Dr. Giuliano Brunori and Dr. Alessandro Laudon). The study involved the health care staff (one hospital physician and 6 nurses) and **27 adult patients** (males and females with different demographic characteristics).
- **TreC_Complex patient**: this study was carried out in collaboration with the School of Specific Training in General Medicine of Trento (Dr. Marco Clerici). 2 general practitioners were involved and **9 elderly patients** (aged 63-92 years) with a multimorbidity condition (heart failure and at least two other diseases) were selected as participants. The study and its outcomes were the basis for two specialty theses (medicine).
- **TreC_Diabetes** - The study considered 3 groups of DM1 patients grouped by age: **17 children, 10 adults, 4 elderly**. Overall, it involved 6 diabetologists and 5 staff nurses of the Paediatric Operative Unit of the S. Chiara Hospital (that is, the provincial reference center for juvenile diabetes) (Dr. Roberto Franceschi), of the Diabetes Center of Trento (Dr. Tiziana Romanelli) and Rovereto (Dr. Gennaro Renzo). In 2014, a clinical trial was carried out involving the previous centers and 41 voluntary diabetic patients (**15 families** with diabetic young people, **15 adults** and **11 diabetic pregnant woman**). From October 2015 to July 2018, the Diabetes Center of Trento used the TreC_Diabetes to remotely monitor almost all their diabetic pregnant patients living across the entire Province (**20 women**).
- **TreC_Oncology**: it was a participatory research with the aim at fine-tuning a 2.0 system to optimize home management of oral cancer therapies with Capecitabine or Sunitinib as monotherapy. This clinical trial involved the Scientific Institute of Romagna for the Study and Treatment of Cancer (IRST) IRCCS of Meldola, the Health Care System of the Autonomous Province of Trento (APSS), Pope John XXIII Hospital of Bergamo. The study involved 8 oncologists, 2 trainee doctors and **more than 20 patients**.
- **TreC_PED**: this study was focused on the design of a mobile app for nutrition education (TreC-LifeStyle), including a formative evaluation component with families of overweight children. 2 nutritionists of the Dietetic and Clinical Nutrition Service of Trento (Dr. Carlo Pedrolli and Dr. Maria Teresa Pasquazzo) and 3 paediatricians from a primary care center (Dr. Marta Betta, Dr. Lorena Filippi and Dr. Monica Ghezzi) were involved. The final target of the study was composed by **6 families of overweight children** (aged 7-12 years). The system was designed to allow self-reporting of daily food intake of children (for a 6-week period) and to allow collection of feedback on the user experience with the mHealth intervention.

- **TreC_Hypertension:** the study was based on the scientific evidence showing that the 10% of patients identified as hypertensive are actually false positives. The pilot study was specifically designed to assess the magnitude of this percentage at local level. The study was conducted in partnership with the Specific Training in General Medicine of Trento (www.scuolamgtn.it). 3 general practitioners and **15 patients** were involved. The results were used for a specialty thesis in 2013.
- **Key to Health** (TreC-LifeStyle app): this initiative was a workplace health promotion project, aimed at reducing the risk of incurring cardiovascular disease and developing type 2 diabetes. The project was based on a large collaboration among the Autonomous Province of Trento (PAT), the Trento Province Healthcare System (APSS), Fondazione Bruno Kessler (FBK) and the National Institute for Insurance against Accidents at Work (INAIL), with the collaboration of the Trentino 4.0 Competence Center for Digital Health. The experimentation phases involved 258 workers of FBK, Province Administration and Healthcare System. **46 workers** at risk of developing cardiovascular diseases and/or diabetes were selected to join a prevention program led by an occupational health physician and with the additional support of a specific self-monitoring technology (wearable devices and smartphone applications).
- **GeoTreC:** Geo_TreC is a mobile application developed for promoting active aging through gamification (treasure hunt) in collaboration with elderly visiting the Contrada Larga Service Center in Trento. Different small pilots initiatives have been conducted with older people e with students of primary and secondary school, involving a total of about **80 elderly and 60 students**.
- **TreC_Cardio:** this is a tele-cardiology project with the support of the TreC_Cardio platform. This platform integrates data from a range of cardiological devices, allowing to monitor the status of the battery operation and any arrhythmic events, with the medical record and the drug therapy. Currently **15 patients** in the Province of Trento with arrhythmic diseases and device carriers cardiological have been involved.
- **TreC_Gestational Diabetes:** this project is an evolution of the previous pilot study. The aim is to put into service a new organizational model for the management of patients with type 1 diabetes mellitus, supported by the TreC_Diabetes platform and in compliance with the PDTA (Therapeutic and Assistance Diagnostic Paths). The pilot study involves 13 diabetologists, 5 specialists' doctors, 18 nurses of the Diabetes Centers of Trento, Cavalese, Rovereto and Tione. Currently **49 women** with gestational diabetes are participating in the project.

Annex II: Selected Scientific Publications

Journal articles

1. C. Eccher, L. Gios, A. Zanutto, G. Bizzarri, D. Conforti, S. Forti. TreC platform. An integrated and evolving care model for patients' empowerment and data repository. *Journal of Biomedical Informatics*, 102:103359, 2020. doi: 10.1016/j.jbi.2019.103359
2. S. Fornasini, M. Dianti, A. Bacchiega, S. Forti, D. Conforti. Using Geocaching to Promote Active Aging: Qualitative Study. *Journal of Medical Internet Research*, 22(6): e15339, 2020. doi: 10.2196/15339
3. O. Mayora, S. Forti, D. Conforti, P. Tessari, S. Testa. Trentino salute 4.0 - the creation of a competence center on digital health integrating policy, healthcare trust and research in trentino territory. *International Journal of Integrated Care*, 19(4):56, 2019. doi: <http://doi.org/10.5334/ijic.s3056>
4. S. Gabrielli, M. Dianti, R. Maimone, M. Betta, L. Filippi, M. Ghezzi, S. Forti. Design of a Mobile App for Nutrition Education (TreC-LifeStyle) and Formative Evaluation With Families of Overweight Children. *JMIR mHealth and uHealth*, 5(4): e48, 2017. doi: 10.2196/mhealth.7080
5. A. Passardi, M. Rizzo, F. Maines, C. Tondini, A. Zambelli, R. Vespignani, D. Andreis, I. Massa, M. Dianti, S. Forti, E.M. Piras, C. Eccher. Optimisation and validation of a remote monitoring system (Onco-TreC) for home-based management of oral anticancer therapies: an Italian multicentre feasibility study. *BMJ Open*, 7(5):e014617, 2017. doi: 10.1136/bmjopen-2016-014617
6. E. Galligioni, E.M. Piras, M. Galvagni, C. Eccher, S. Caramatti, D. Zanolli, J. Santi, F. Berlofffa, M. Dianti, F. Maines, M. Sannicolò, M. Sandri, L. Bragantini, A. Ferro, S. Forti. Integrating mHealth in Oncology: Experience in the Province of Trento. *JMIR. Journal of Medical Internet Research*, 17(5): e114, 2015. doi: 10.2196/jmir.3743
7. E. Galligioni, F. Berlofffa, O. Caffo, G. Tonazzolli, G. Ambrosini, F. Valduga, C. Eccher, A. Ferro, S. Forti. Development and daily use of an electronic oncological patient record for the total management of cancer patients: 7 years' experience. *Annals of Oncology*, 20(2): 349-52, 2009. doi: 10.1093/annonc/mdn567
8. E. Galligioni, S. Forti, F. Berlofffa, O. Caffo, A. Ferro, C. Eccher, A. Caldara, V. Murgia, B. Soini, M. Frisinghelli. Routine quality assessment of cancer care, through information technology instruments incorporated into clinical practice. *Annals of Oncology*, 20, 2009
9. E. Galligioni, S. Forti, F. Berlofffa, O. Caffo, A. Ferro, C. Eccher, A. Caldara, V. Murgia, B. Soini. Real-time quality assessment of cancer care through information technology instruments incorporated into routine clinical practice. *Journal of Clinical Oncology*, 27(15): 6620, 2009
10. C. Eccher, B. Purin, D. Pisanelli, M. Battaglia, I. Apolloni, S. Forti. Ontologies supporting continuity of care: The case of heart failure. *Computers in Biology and Medicine*, 36(7-8):789 – 801, 2006. doi: 10.1016/j.combiomed.2005.07.002
11. A. Sboner, P. Bauer, G. Zumiani, C. Eccher, E. Blanzieri, S. Forti, M. Cristofolini. Clinical Validation of an automated system for supporting the early diagnosis of melanoma, *Skin Research and Technology*, 10(3):184-92, 2004. doi: 10.1111/j.1600-0846.2004.00066.x

12. A. Sboner, C. Eccher, E. Blanzieri, P. Bauer, M. Cristofolini, G. Zumiani, S. Forti. A multiple classifier system for early melanoma diagnosis. *Artificial Intelligence in Medicine*, 27(1): 29-44, 2003. doi: 10.1016/s0933-3657(02)00087-8
13. Larcher, E. Arisi, F. Berlofffa, F. Demichelis, C. Eccher, E. Galligioni, M. Galvagni; G. Martini, A. Sboner, L. Tomio, G. Zumiani, A. Graiff; S. Forti. Analysis of the user-satisfaction with the use of a tele-consultation system in oncology. *Medical Informatics and the Internet in Medicine*, 28(2): 73-84, 2003. doi: 10.1080/14639230310000600470
14. Larcher, F. Berlofffa, F. Demichelis, C. Eccher, C. Favaretti, M. Galvagni, G. Martini, A. Sboner, A. Graiff, S. Forti. An evaluation of the users' satisfaction and the use of a tele-consultation system in oncology practice. *Journal of Telemedicine and Telecare*, 8(Suppl 2):28-30, 2002. doi: 10.1177/1357633X020080S213
15. F. Demichelis, V. Della Mea, S. Forti, P. Dalla Palma, C.A. Beltrami. Digital storage of glass slides for quality assurance in histopathology and cytopathology. *Journal of Telemedicine and Telecare*, 8(3):138-142, 2002. doi: 10.1177/1357633X0200800303
16. V. Della Mea, F. Demichelis, F. Viel, P. Dalla Palma, S. Forti, C.A. Beltrami. Quality Assurance through Digital Pathology: the eQual Project. *Technology and health Care*, 10(6): 466-67, 2002
17. F. Demichelis, M. Barbareschi, S. Boi, C. Clemente, P. Dalla Palma, C. Eccher, S. Forti. Robotic telepathology for intraoperative remote diagnosis using a still-imaging-based system. *American journal of clinical pathology*, 116(5):744-52, 2001. doi: 10.1309/D71Y-7RLE-JGJP-A427
18. E. Galligioni, S. Forti, C. Eccher, B. Larcher, A. Shoner, O. Caffo, A. Lucenti, S. Robbiati, G. Piazza, F. Fiorentini. A teleconsulting network between peripheral hospitals and the referring center for cancer patients, in Trento (Italy). *European Journal of Cancer*, 37(6): S239, 2001. doi: 10.1016/S0959-8049(01)81375-7
19. L. Zambotti, B. Larcher, A. Graiff, L. Paterno, D. Sandri, S. Forti, F. Berlofffa, L. Tonetti, E. Torre, D. Pisoni, D. Morelli, P. Sartori, C. Merler, C. Foradori, F. Dalsasso, E. Galligioni. The impact of the routine use of a multimedial oncological digital record in nurses' activity. *Annals of Oncology*, 12, 2001
20. E. Galligioni, S. Forti, O. Caffo, F. Berlofffa, A. Lucenti, M. Galvagni, G. Ambrosini, C. Arcuri, A. Ferro, S. Santarossa, S. Brugnara, F. Valduga, S. Robbiati, G. Piazza, F. Fiorentini, A. Graiff. A multimedial oncological digital record for routine use and for teleconsultation with peripheral hospitals. The experience at the Medical Oncology Unit of Trento (Italy). *Annals of Oncology*, 12, 2001
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