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The aim of the research was to analyse the practical and daily dimension of the work of the air traffic control officer (ATCO). The ATCO is an operator able to handle unexpected situations within a complex operating, technological and regulatory system while maintaining a high level of reliability and safety. In particular, the work of the ATCO is characterized by two crucial elements: (1) the accurate management of time variables (air traffic management requires the air traffic controller to take decisions and act in extremely restricted fractions of time) and (2) continuous

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coordination with various items of technology and with other workers (pilots, other ATCOs and other types of personnel employed at airports). This means that it is an activity that at the same time presupposes both individual skills and capabilities and also collective capabilities, aimed at building a common space of mutual understanding and agreement with regard to the interpretive schemes to be utilised in order to deal with the multiple scenarios that can arise in the field of air traffic management. The aims of the research were descriptive-analytical in nature: Describe the characteristics of the ATCO profession, highlighting the aspects of reliability, safety and management of unexpected events; Describe and analyse the cognitive and organizational complexity of the ATCO's work. The research also involved goals of a practical-

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improvement kind, encouraging greater awareness in terms of: the operators, with reference to the management of unexpected events, to the cognitive and organizational complexity of air traffic control activity, to the operational specificities associated with maintaining and increasing effectiveness, efficiency, reliability and safety in the management of air traffic; The identification of improvement criteria for the initial selection and training (both at the start and then ongoing) of staff dedicated to air traffic control; The complexity of the work of ATCOs in areas different from those of an academic-professional kind, in order to promote an informed exchange of expertise outside the world of the operators in the sector. The research was promoted by four bodies: the Società Nazionale Assistenza al Volo (ENAV

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S.p.a.); the Associazione Nazionale Assistenti e Controllori Navigazione Aerea (ANACNA); the Confederazione Italiana Sindacati dei Lavoratori (FIT-CISL) and the Unione Italiana Controllo e Assistenza al Volo (UNICA). The research was carried out by a team from the Dipartimento di Sociologia e Ricerca Sociale dell'Università of Milano-Bicocca, composed of Maurizio Catino (director of the research project), Alessia Bianco Dolino, Diego Coletto and Chiara Locatelli. The work presents some extremely innovative features in the field of studies available today regarding the profession of air traffic controller and constitutes the first research experience in this sector at an Italian level, as well as being one of first at an international level. In particular, these distinctive features involve, on the one hand, the research methodology used

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and, on the other hand, the theoretical frame of reference chosen for the analysis. As far as research methodology is concerned, the techniques of organizational ethnography have been employed. This involved a long period of observation in the field of work itself (448 hours of observation over the course of a year), making it possible to directly observe the work practices adopted by front-line operators, the main characteristics of the work and the specific operational needs of the profession. Specifically, observations were carried out in four operating locations: the Area Control Centres (ACCs) in Rome and Milan and the Control Towers (TWRs) at Malpensa and Fiumicino airports. Cockpit Resource Management (CRM) has gained increased attention from the airline industry in recent years due to the

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growing number of accidents and near misses in airline traffic. This book, authored by the first generation of CRM experts, is the first comprehensive work on CRM. Cockpit Resource Management is a far-reaching discussion of crew coordination, communication, and resources from both within and without the cockpit. A valuable resource for commercial and military airline training curriculum, the book is also a valuable reference for business professionals who are interested in effective communication among interactive personnel. Key Features * Discusses international and cultural aspects of CRM * Examines the design and implementation of Line-Oriented Flight Training (LOFT) * Explains CRM, LOFT, and cockpit automation * Provides a case history of CRM training which improved flight safety for a

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major airline

Operating theatres are very private workplaces. There have been few research investigations into how highly trained doctors and nurses work together to achieve safe and efficient anaesthesia and surgery. While there have been major advances in surgical and anaesthetic procedures, there are still significant risks for patients during operations and adverse events are not unknown. Due to rising concern about patient safety, surgeons and anaesthetists have looked for ways of minimising adverse events. Behavioural scientists have been encouraged by clinicians to bring research techniques used in other industries into the operating theatre in order to study the behaviour of surgeons, nurses and anaesthetists. Safer Surgery presents one of the first

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collections of studies designed to understand the factors influencing safe and efficient surgical, anaesthetic and nursing practice. The book is written by psychologists, surgeons and anaesthetists, whose contributions combine to offer readers the latest research techniques and findings from some of the leading investigators in this field. It is designed for practitioners and researchers interested in understanding the behaviour of operating theatre team members, with a view to enhancing both training and practice. The material is also suitable for those studying behaviour in other areas of healthcare or in high-risk work settings. The aims of the book are to: a) present the latest research on the behaviour of operating theatre teams b) describe the techniques being used by psychologists and clinicians to study surgeons,

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anaesthetists and theatre nurses' task performance c) outline the safety implications of the research to date.

Many industries have begun to recognize the potential support that unmanned aerial vehicles (UAVs) offer, and this is no less true for the commercial sector. Current research on this field is narrowly focused on technological development to improve the functionality of delivery and endurance of the drone delivery in logistics, as well as on regulatory challenges posed by such operations. There is a need for further attention to be applied to operational and integration challenges associated with UAVs. Unmanned Aerial Vehicles in Civilian Logistics and Supply Chain Management is a collection of innovative research that investigates the opportunities and challenges for the use of UAVs in logistics

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and supply chain management with a specific aim to focus on the multifaceted impact of drone delivery. While highlighting topics including non-military operations, public management, and safety culture, this book is ideally designed for government administrators, managers, industry professionals, researchers, and students.

Surgical Nurses' Non-technical Skills

16th IFIP WG 11.12 International Symposium, HAISA 2022, Mytilene, Lesbos, Greece, July 6–8, 2022, Proceedings

A Correlational Study

Clinical Anaesthesia

Data Driven Approaches in Digital Education

Structured Assessment of Anaesthesiologists' Non-technical Skills in a Simulated Setting

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This book focuses exclusively on the surgical patient and on the perioperative environment with its unique socio-technical and cultural issues. It covers preoperative, intraoperative, and postoperative processes and decision making and explores both sharp-end and latent factors contributing to harm and poor quality outcomes. It is intended to be a resource for all healthcare practitioners that interact with the surgical patient. This book provides a framework for understanding and addressing many of the organizational, technical, and cultural aspects of care to one of the most vulnerable patients in the system, the surgical patient. The first section presents foundational principles of safety science and related social science. The second exposes barriers to achieving optimal surgical outcomes and details the various errors and events

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that occur in the perioperative environment. The third section contains prescriptive and proactive tools and ways to eliminate errors and harm. The final section focuses on developing continuous quality improvement programs with an emphasis on safety and reliability. Surgical Patient Care: Improving Safety, Quality and Value targets an international audience which includes all hospital, ambulatory and clinic-based operating room personnel as well as healthcare administrators and managers, directors of risk management and patient safety, health services researchers, and individuals in higher education in the health professions. It is intended to provide both fundamental knowledge and practical information for those at the front line of patient care. The increasing interest in patient safety worldwide makes this

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a timely global topic. As such, the content is written for an international audience and contains materials from leading international authors who have implemented many successful programs.

Practising fundamental patient care skills and techniques is essential to the development of trainees' wider competencies in all medical specialties. After the success of simulation learning techniques used in other industries, such as aviation, this approach has been adopted into medical education. This book assists novice and experienced teachers in each of these fields to develop a teaching framework that incorporates simulation. The Manual of Simulation in Healthcare, Second Edition is fully revised and updated. New material includes a greater emphasis on patient safety,

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interprofessional education, and a more descriptive illustration of simulation in the areas of education, acute care medicine, and aviation. Divided into three sections, it ranges from the logistics of establishing a simulation and skills centre and the inherent problems with funding, equipment, staffing, and course development to the considerations for healthcare-centred simulation within medical education and the steps required to develop courses that comply with 'best practice' in medical education. Providing an in-depth understanding of how medical educators can best incorporate simulation teaching methodologies into their curricula, this book is an invaluable resource to teachers across all medical specialties. This book provides a comprehensive overview of percutaneous nephrolithotomy, covering topics including its

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history, anatomy, preoperative preparation, clinical operation, and postoperative treatment. It presents both basic and advanced techniques, such as micro-PNL, mini-PNL, ultra-mini-PNL, and super mini-PNL, together with representative clinical cases. In addition, the book describes potential technical issues, complications, indications and contraindications in detail, making it a valuable reference guide for urologists, especially those who wish to improve their PCNL skills in clinical practice.

This book is open access under a CC BY 4.0 license. This book investigates why, despite more and more resources devoted to safety training, expectations are not entirely met, particularly in the industrial sectors that have already achieved a high safety level. It not only reflects the most

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precious viewpoints of experts from different disciplines, different countries, with experiences in various industrial fields at the cutting edge of theories and practices in terms of safety, professionalization and their relationships. It also consolidates the positioning of the Foundation for an Industrial Safety Culture, highlighting what is currently considered at stake in terms of safety training, taking into account the system of constraints the different stakeholders are submitted to. It reports some success stories as well as elements which could explain the observed plateau in terms of outcome. It identifies some levers for evolution for at-risk industry and outlines a possible research agenda to go further with experimental solutions.

Proceedings of the 4th AHFE Conference 21-25 July 2012

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Supporting reliability, safety and cost reduction

Cockpit Resource Management

Analysing Behaviour in the Operating Theatre

A Guide to Non-Technical Skills

Proceedings of the 21st Congress of the International

Ergonomics Association (IEA 2021)

ABC of Transfer and Retrieval Medicine provides the key information required to help health care professionals involved in the movement of critically ill patients to do so safely, correctly and with confidence. Beginning with the practical and clinical considerations to be taken into account during patient transfer and an overview of

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transfer equipment, it then addresses pharmacological aspects of patient transfer, the roles and responsibilities of the transfer team, and the requirements of neonatal, paediatric and specialist transfers. Mapped against the syllabus for the Diploma of Retrieval and Transfer Medicine (Royal College of Surgeons of Edinburgh), it has been developed as a core resource for the diploma whilst providing an invaluable resource for any healthcare professional involved in the transfer of critically ill patients including anaesthetists, intensivists, nurses from ICU/ED and paramedics. It also

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includes frameworks for radiology and arterial blood gas interpretation, guidance on patient triage, transfer checklists and equipment checklists, and a summary of the relevant national guidelines. From a multidisciplinary international author team, this new addition to the ABC series is a useful resource for all health care professionals involved in the transfer of patients. It is relevant to anaesthetists, intensivists, paramedics, critical care and emergency department nursing staff who are required to take part in intra and inter hospital transfers.

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The new edition of Crew Resource Management continues to focus on CRM in the cockpit, but also emphasizes that the concepts and training applications provide generic guidance and lessons learned for a wide variety of "crews" in the aviation system as well as in the complex and high-risk operations of many non-aviation settings. Long considered the "bible" in this field, much of the basic style and structure of the previous edition of Crew Resource Management is retained in the new edition. Textbooks are often heavily supplemented with or replaced entirely by course packs in advanced courses in the aviation

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field, as it is essential to provide students with cutting edge information from academic researchers, government agencies (FAA), pilot associations, and technology (Boeing, ALION). This edited textbook offers ideal coverage with first-hand information from each of these perspectives. Case examples, which are particularly important given the dangers inherent in real world aviation scenarios, are liberally supplied. An image collection and test bank make this the only text on the market with ancillary support. New material includes: international and cultural aspects of CRM; design and

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implementation of Line-Oriented Flight Training (LOFT); airline applications beyond the cockpit; spaceflight resource management; non-aviation applications; AQP; LOSA; and special issues pertaining to low-cost airline carriers. The second edition editors offer essential breath of experience in aviation human factors from multiple perspectives (academia, government, and private enterprise) and the contributors have all been chosen as experts in their fields who represent the diversity of the research of activities and organisational experience of CRM. The only CRM text on the market offering an up-

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to-date synthesis of primary source material New edition thoroughly updated and revised to include major new findings, complete with discussion of the international and cultural aspects of CRM, the design and implementation of LOFT Instructor website with testbank and image collection Liberal use of case examples Issues in Surgery, Perioperative, and Anesthesia Research and Practice: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Anesthesiology. The editors have built Issues in Surgery, Perioperative, and Anesthesia

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Research and Practice: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Anesthesiology in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Surgery, Perioperative, and Anesthesia Research and Practice: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at

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Clinical Anaesthesia Lecture Notes provides a comprehensive introduction to the modern principles and practices of anaesthesia for medical students, trainee doctors, anaesthetic nurses and other health professionals working with anaesthetists. This fifth edition has been fully updated to reflect changes in clinical practice, guidelines, equipment and drugs. Key

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features include:

- A new chapter on the roles of the anaesthetist
- Increased coverage of the peri-operative management of the overweight and obese patient, as well as an introduction to the fundamental aspects of paediatric anaesthesia
- Coverage of recent developments within the specialty, including the rapidly growing recognition of the importance of non-technical skills (NTS), and the management of some of the most common peri-operative medical emergencies
- Links to further online resources
- A companion website at www.lecturenoteseries.com/anaesthesia featuring

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interactive true/false questions, SAQs, and a list of further reading and resources Full-colour diagrams, photographs, as well as learning objectives at the start of each chapter, support easy understanding of the knowledge and skills of anaesthesia, allowing confident transfer of information into clinical practice.

Intelligent Tutoring Systems

Longitudinal Teaching Of Non-Technical Skills In Prehospital Emergency Medical Educational Training

14th International Conference, ITS 2018, Montreal, QC, Canada, June 11-15, 2018,

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Proceedings

Textbook of Patient Safety and Clinical Risk Management

Crew Resource Management

Safer Surgery

Background and Goal of Study: The importance of good non-technical skills (NTS) is acknowledged by societies of anaesthesiology and intensive care medicine. Training NTS has the potential to improve patient safety. Recently, we customized an instrument to assess anaesthesiologists' NTS (ANTSdk (1)). NTS assessment using behavioural marker

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systems such as ANTSdk are introduced in specialist training programmes and novices' NTS are compared to what is expected from experienced anaesthesiologists'. However, literature is sparse on experienced anaesthesiologistsu00b4 NTS. Goal: To explore if ANTSdk can differentiate between novice, intermediate and expert anaesthesiologists in an unexpected difficult airway simulation scenario. Materials and methods: A purpose sample of 28 participants was included: 10 1st year trainees, 8 3rd year trainees, and 10 qualified specialists. The scenarios were video-recorded and rated by two trained

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raters using ANTSdk. A global rating score (GRS) Likert scale from 1-7 was used. Rating of categories and elements were rated using a 5-point Likert scale. Results and discussion: The ANTSdk GRS means (SD) were 4.0 (.67), 5.6 (.68), and 6.0 (.60) for first year trainees, third year trainees, and qualified specialists, respectively. A significant difference in ANTSdk ratings was found between 1st year trainees and 3rd year trainees (P

This book presents the proceedings of the 21st Congress of the International Ergonomics Association (IEA 2021), held online on June

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13-18, 2021. By highlighting the latest theories and models, as well as cutting-edge technologies and applications, and by combining findings from a range of disciplines including engineering, design, robotics, healthcare, management, computer science, human biology and behavioral science, it provides researchers and practitioners alike with a comprehensive, timely guide on human factors and ergonomics. It also offers an excellent source of innovative ideas to stimulate future discussions and developments aimed at applying knowledge and techniques to optimize

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system performance, while at the same time promoting the health, safety and wellbeing of individuals. The proceedings include papers from researchers and practitioners, scientists and physicians, institutional leaders, managers and policy makers that contribute to constructing the Human Factors and Ergonomics approach across a variety of methodologies, domains and productive sectors. This volume includes papers addressing the following topics: Activity Theories for Work Analysis and Design (ATWAD), Organisation design and management (ODAM), Ergonomic Work Analysis and Training

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(EWAT), Systems HF/E, HF/E Education and Professional Certification Development. Enhancing Surgical Performance: A Primer in Non-Technical Skills explains why non-technical skills are vital for safe and effective performance in the operating theatre. The book provides a full account, with supporting empirical evidence, of the Non-Technical Skills for Surgeons (NOTSS) system and behavioural rating framework, which helps identify the key elements involved in successful operative surgery. The editors spent the last twelve years as part of the team developing and testing the NOTSS

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system and delivering presentations and workshops across the world. Readers will benefit by having, in one accessible handbook, a description of the NOTSS system and how it can be used for training, assessment, self-reflection and event analysis. The book also examines human error, performance limitations, and global safety initiatives in surgery. Because it encourages surgeons to reflect on their own performance and behaviour, it is suitable for surgeons in all specialties and at all levels. Business practices are rapidly changing due to technological advances in the workplace.

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Organizations are challenged to implement new programs for more efficient business while maintaining their standards of excellence and achievement. Human Performance Technology: Concepts, Methodologies, Tools, and Applications is a vital reference source for the latest research findings on real-world applications of digital tools for human performance enhancement across a variety of settings. This publication also examines the utilization of problem-based instructional techniques for challenges and solutions encountered by industry professionals. Highlighting a range of topics such as

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performance support systems, workplace curricula, and instructional technology, this multi-volume book is ideally designed for business executives and managers, business professionals, human resources managers, academicians, and researchers actively involved in the business industry.

Percutaneous Nephrolithotomy

Issues in Surgery, Perioperative, and Anesthesia Research and Practice: 2013 Edition

A Primer in Non-technical Skills

Railway Safety Principles and Guidance Part 3 Integrating Technology in Positive Psychology

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Practice

Enhancing Surgical Performance

This new addition to the popular Essentials series provides a broad, general introduction to the topic of simulation within clinical education. An ideal tool for both teaching and learning, Essential Simulation in Clinical Education provides a theoretical and practical introduction to the subject of simulation, whilst also offering strategies for successful use of simulators within general clinical education and demonstrating best practice throughout. This timely new text provides: The latest information on developments in the field, all supported by an evidence-based Content written by a global team of experts Discussion of policy and strategy initiatives

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ground simulation within the healthcare context Practical examples of cases, including inter-professional learning. A superb companion for those involved in multi-disciplinary healthcare teaching, or interested in health care education practices, Essential Simulation in Clinical Education is the most comprehensive guide to the field currently available. Ergonomics and human factors is the discipline concerned with the application of scientific knowledge to improve people's interaction with products, systems and environments. This book presents the proceedings of the international conference, Ergonomics and Human Factors 2015, the 29th year in which a volume in the Contemporary Ergonomics series has

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Now widely recognized as one of the most effective methods for training future surgeons, simulation has become an integral part of the multidimensional landscape that makes a surgical education curriculum. This book provides an overview of the current status of simulation-based training in various surgical disciplines and explains the science of surgical education, from developing a simulation program to properly assess surgeons-in-training, to transferring the skills acquired through simulation into real-life settings. As such, the book can be used as a guide for understanding the basics of surgical education.

This research is the first to explore the social and cognitive non-technical skills (NTS) required of nurses practising in

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general surgical wards, the first to identify a taxonomy of for general surgical nurses and the first to identify the differences in levels of performance of the NTS between experienced and less experienced nurses. There is increasing evidence that poor performance of these skills by health professionals at the 'sharp end' of healthcare is a significant factor contributing to preventable adverse patient events. This study was conducted in four general surgical wards in a metropolitan hospital in a large city in New Zealand using a Human Factors (HF) approach. Part A, the first stage of the study, involved non-participant observations of fifteen nurses and used an inductive process to identify a taxonomy of skills/NTS required of the nurses in their roles in surgical wards.

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These skills are communication, teamwork, situation awareness, decision-making, leadership and management, planning, and patient advocacy. Part B, the second stage of the study, used applied cognitive task analysis (ACTA) to determine the key cognitive skills that nurses use in challenging situations and to determine the differences between experienced and less experienced nurses' practice. This involved a series of semi-structured interviews with 5 registered nurses. In conclusion, this research has developed a taxonomy of general surgical nurses' NTS, both social and cognitive, identified the cognitive demands and cognitive processes of nurses pertaining to challenging events, and provided an understanding of the differences in decision-

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making between experienced and less experienced nurses. study has also identified gaps in nursing practice and nursing knowledge that can compromise the safety and effectiveness of the healthcare provided to patients. The findings from this research have significant implications for professional nursing practice and nursing education and point to a requirement for NTS training to be introduced into the nursing education curriculum and to be part of continuing professional development for nurses working in clinical settings.

Essential Simulation in Clinical Education

Leadership Styles and Companies' Success in Innovation and Job Satisfaction

Advances in Human Aspects of Road and Rail Transportation

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Embedding Safety in Professional Skills

Surgical Simulation

Patient Safety in Surgery

Human factors and ergonomics have made considerable contributions to the research, design, development, operation and analysis of transportation systems and their complementary infrastructure. This volume focuses on the causations of road accidents, the function and design of roads and signs, the design of automobiles, and the training of the driver. It covers accident analyses, air traffic control, control rooms, intelligent transportation systems, and new systems and technologies.

Many 21st century operations are characterised by teams of

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workers dealing with significant risks and complex technology, in competitive, commercially-driven environments. Informed managers in such sectors have realised the necessity of understanding the human dimension to their operations if they hope to improve production and safety performance. While organisational safety culture is a key determinant of workplace safety, it is also essential to focus on the non-technical skills of the system operators based at the 'sharp end' of the organisation. These skills are the cognitive and social skills required for efficient and safe operations, often termed Crew Resource Management (CRM) skills. In industries such as civil aviation, it has long been appreciated that the majority of accidents could have been prevented if better

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non-technical skills had been demonstrated by personnel operating and maintaining the system. As a result, the aviation industry has pioneered the development of CRM training. Many other organisations are now introducing non-technical skills training, most notably within the healthcare sector. Safety at the Sharp End is a general guide to the theory and practice of non-technical skills for safety. It covers the identification, training and evaluation of non-technical skills and has been written for use by individuals who are studying or training these skills on CRM and other safety or human factors courses. The material is also suitable for undergraduate and post-experience students studying human factors or industrial safety programmes. This publication forms part of the extended series on

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railway safety principles and guidance dealing with staff competence, management and organization, railway operations, and human factors. Part 4A centres around a number of principles, each with underlying factors and guidance on each principle, offering explanations and examples. It is primarily aimed at those who are responsible for managing the competence of individuals and teams in the railway industry, whose work has an impact on operational safety (including the safety of the public, themselves and their co-workers). It is of particular interest to railway infrastructure controllers, all train/tram operating companies, maintenance/renewal companies, and their contractors/subcontractors.

This book constitutes the proceedings of the 16th IFIP WG

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11.12 International Symposium on Human Aspects of Information Security and Assurance, HAISA 2022, held in Mytilene, Lesbos, Greece, in July 2022. The 25 papers presented in this volume were carefully reviewed and selected from 30 submissions. They are organized in the following topical sections: cyber security education and training; cyber security culture; privacy; and cyber security management.

12th European Conference on Technology Enhanced Learning, EC-TEL 2017, Tallinn, Estonia, September 12-15, 2017, Proceedings

Advances in Human Factors and Ergonomics 2012- 14
Volume Set

Volume I: Systems and Macroergonomics

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Developing and Maintaining Staff Competence

Rail Human Factors

ABC of Transfer and Retrieval Medicine

There's no available information at this time. Author will provide once information is available.

Medical simulation is a relatively new science that is achieving respectability among healthcare educators worldwide. Simulation and skills centres have become established to integrate simulation into mainstream education in all medical, nursing, and paramedical fields. Borrowing

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from the experience and methodologies of industries that are using simulation, medical educators are grappling with the problem of rapidly acquiring the skills and techniques required to implement simulation programmes into established curricula. This book assists both novice and experienced workers in the field to learn from established practitioners in medical simulation. Simulation has been used to enhance the educational experience in a diverse range of fields; therefore a wide variety of disciplines are represented. The

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book begins with a section on the logistics of establishing a simulation and skills centre and the inherent problems with funding, equipment, staffing and course development, and promotion. Section two deals with simulators and related training devices that are required to equip a stand-alone or institution-based centre. The features, strengths, and weaknesses of training devices are presented to help the reader find the appropriate simulator to fulfil their training requirements. There is a guide to producing scenarios and medical

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props that can enhance the training experience. The third section covers adult education and it reviews the steps required to develop courses that comply with 'best practice' in medical education. Teaching skills, facilitating problem-based learning groups and debriefing techniques are especially important to multidisciplinary skills centres that find themselves becoming a centre for medical education. The manual concludes with guides for the major specialties that use simulation, including military, paediatrics, CPR and

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medical response teams, obstetrics, and anesthesia.

In general, surgeons strive to achieve excellent results and ideal patient outcomes, however, this noble task is frequently failed. For patients, surgical complications are analogous to “friendly fire” in wartime. Both scenarios imply that harm is unintentionally done by somebody whose aim was to help. Interestingly, adverse events resulting from surgical interventions are more frequently related to system errors and a communication

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breakdown among providers, rather than to the imminent threat of the surgical blade “gone wrong”. Patient Safety in Surgery aims to increase the safety and quality of care for patients undergoing surgical procedures in all fields of surgery. Patient Safety in Surgery, covers all aspects related to patient safety in surgery, including pertinent issues of interest to surgeons, medical trainees (students, residents, and fellows), nurses, anaesthesiologists, patients, patient families, advocacy groups, and medicolegal experts.

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The rail human factors/ergonomics community has grown quickly and extensively, and there is much increased recognition of the vital importance of ergonomics/human factors by rail infrastructure owners, rail operating companies, system developers, regulators and national and trans-national government. This book, the fourth on rail human factors, is
Safety at the Sharp End
Robotic Surgery
Beyond Safety Training

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Crisis Management in Anesthesiology E-Book

Unmanned Aerial Vehicles in Civilian Logistics and Supply Chain Management Effects Of Targeted Non-Technical Skills Training On Recognition And Treatment Of Cardiac Arrest

The fully updated Crisis Management in Anesthesiology continues to provide updated insights on the latest theories, principles, and practices in anesthesiology. From anesthesiologists and nurse anesthetists to emergency physicians and residents, this medical reference book will effectively prepare

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you to handle any critical incident during anesthesia. Identify and respond to a broad range of life-threatening situations with the updated Catalog of Critical Incidents, which outlines what may happen during surgery and details the steps necessary to respond to and resolve the crisis. React quickly to a range of potential threats with an added emphasis on simulation of managing critical incidents. Useful review for all anesthesia professionals of the core knowledge of diagnosis and management of many critical events. Explore new topics in the ever-expanding anesthesia practice environment with a detailed chapter on debriefing. Consult this title on your favorite e-reader, conduct rapid searches, and

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adjust font sizes for optimal readability.

Most research on the psychological impact of computers and the Internet has focused on the negative side of technology - i.e. how the use (abuse) of interactive systems and videogames can negatively affect mental health and behavior. On the other hand, less attention has been devoted to understanding how emerging technologies can promote optimal functioning at individual, group, and community levels. Integrating Technology in Positive Psychology Practice explores the various roles that technology can play in the development of psychological interventions aimed at helping people thrive. Exploring the ways in which ICT can be

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utilized to foster positive emotions, promote engagement in empowering activities, and support connectedness between individuals, groups, and communities, this timely publication is designed for use by psychologists, IT developers, researchers, and graduate students.

This book constitutes the proceedings of the 12th European Conference on Technology Enhanced Learning, EC-TEL 2017, held in Tallinn, Estonia, in September 2017. The 24 full papers, 23 short papers, 6 demo papers, and 22 poster papers presented in this volume were carefully reviewed and selected from 141 submissions. The theme for the 12th EC-TEL conference on Data Driven Approaches in Digital

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Education' aims to explore the multidisciplinary approaches that effectively illustrate how data-driven education combined with digital education systems can look like and what are the empirical evidences for the use of data driven tools in educational practices.

The first edition of Robotic Surgery was written only a decade after the introduction of robotic technology. It was the first comprehensive robotic surgery reference and represented the early pioneering look ahead to the future of surgery. Building upon its success, this successor edition serves as a complete multi-specialty sourcebook for robotic surgery. It seeks to explore an in-depth look into surgical

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robotics and remote technologies leading to the goal of achieving the benefits of traditional surgery with the least disruption to the normal functions of the human body. Written by experts in the field, chapters cover the fundamental principles of robotic surgery and provide clear instruction on their clinical application and long term results. Most notably, one chapter on “The Blueprint for the Establishment of a Successful Robotic Surgery Program: Lessons from Admiral Hymen R. Rickover and the Nuclear Navy” outlines the many valuable lessons from the transformative change which was brought about by the introduction of nuclear technology into the conventional navy with Safety as the singular goal of

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the change process. Robotics represents a monumental triumph of surgical technology. Undoubtedly, the safety of the patient will be the ultimate determinant of its success. The second edition of Robotic Surgery aims to erase the artificial boundaries of specialization based on regional anatomy and serves as a comprehensive multispecialty reference for all robot surgeons. It allows them to contemplate crossing boundaries which are historically defined by traditional open surgery.

Contemporary Ergonomics and Human Factors 2015
Concepts, Methodologies, Tools, and Applications
Human Performance Technology: Concepts,

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Methodologies, Tools, and Applications

Manual of Simulation in Healthcare

The profession of air traffic controller operating safely and efficiently in a context of high reliability Patient Safety and Healthcare Improvement at a Glance is a timely and thorough overview of healthcare quality writtenspecifically for students and junior doctors and healthcareprofessionals. It bridges the gap between the practical and thetheoretical to ensure the safety and wellbeing of patients. Featuring essential step-by-step guides to interpreting andmanaging risk, quality improvement within clinical

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specialties, and practice development, this highly visual textbook offers the best preparation for the increased emphasis on patient safety and quality-driven focus in today's healthcare environment. Healthcare Improvement and Safety at a Glance: • Maps out and follows the World Health Organization Patient Safety curriculum • Draws upon the quality improvement work of the Institute for Healthcare Improvement This practical guide, covering a vital topic of increasing importance in healthcare, provides the first genuine introduction to patient safety and quality improvement grounded in

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clinicalpractice.

Purpose of the studyThe aim of the study was to investigate effects of targeted non-technical skills (NTS) training on recognition of cardiac arrest, timing of cardiopulmonary resuscitation (CPR) and timing of defibrillation.**Materials and methods**A multi-center-controlled trial was performed within ERC Immediate Life Support (ILS) course centers in Austria from June 2013 to September 2014. The control group (CG) received standard ILS training according to course rules. The intervention group (IG) received an additional 1-hour interactive and

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video-supported, targeted NTS training. Equally predefined cardiac arrest simulations (CAS) according to the ILS course documents were video-recorded in both groups with previous informed consent. Investigated parameters included the onset time of recognition of cardiac arrest until CPR start (OT-to-CPR) and the onset time until completion of first rhythm check (OT-to-RC). Results 30 ILS courses were included, whereas 18 were allocated as CG and 12 as IG. 48 CAS were recorded and evaluated (IG: n=25; CG: n=23). OT-to-CPR was highly significantly lower in the IG ($p=0.009$; IG M=20.96s,

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SD=8.10s; CG M=33.00s, SD=18.52s). OT-to-RC was significantly lower in the IG ($p=0.012$; IG M=64.56s, SD=14.61s; CG M=80.09s, SD=25.65s). Conclusions Our results proof that there are significant effects of targeted NTS training on recognition and treatment of cardiac arrest. The duration of NTS training shows that a relatively short amount of training is able to significantly improve team performance. Possibly leading to earlier CPR and defibrillation, targeted NTS training can be recommended as additional training in life support courses.

Textbook of Patient Safety and Clinical Risk

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ManagementSpringer Nature

With contributions from an international group of authors with diverse backgrounds, this set comprises all fourteen volumes of the proceedings of the 4th AHFE Conference 21-25 July 2012. The set presents the latest research on current issues in Human Factors and Ergonomics. It draws from an international panel that examines cross-cultural differences, design issues, usability, road and rail transportation, aviation, modeling and simulation, and healthcare.

Proceedings of the International Conference

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on Ergonomics & Human Factors 2015, Daventry,
Northamptonshire, UK, 13-16 April 2015

Surgical Patient Care

A Human Factors Approach

Improving Safety, Quality and Value

Human Aspects of Information Security and
Assurance

Best Practice in Labour and Delivery

**This book constitutes the proceedings of the 14th
International Conference on Intelligent Tutoring
Systems, IST 2018, held in Montreal, Canada, in
June 2018. The 26 full papers and 22 short
papers presented in this volume were carefully**

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reviewed and selected from 120 submissions. In the back matter of the volume 20 poster papers and 6 doctoral consortium papers are included. They deal with the use of advanced computer technologies and interdisciplinary research for enabling, supporting and enhancing human learning.

Implementing safety practices in healthcare saves lives and improves the quality of care: it is therefore vital to apply good clinical practices, such as the WHO surgical checklist, to adopt the most appropriate measures for the prevention of assistance-related risks, and to identify the

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potential ones using tools such as reporting & learning systems. The culture of safety in the care environment and of human factors influencing it should be developed from the beginning of medical studies and in the first years of professional practice, in order to have the maximum impact on clinicians' and nurses' behavior. Medical errors tend to vary with the level of proficiency and experience, and this must be taken into account in adverse events prevention. Human factors assume a decisive importance in resilient organizations, and an understanding of risk control and containment is

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fundamental for all medical and surgical specialties. This open access book offers recommendations and examples of how to improve patient safety by changing practices, introducing organizational and technological innovations, and creating effective, patient-centered, timely, efficient, and equitable care systems, in order to spread the quality and patient safety culture among the new generation of healthcare professionals, and is intended for residents and young professionals in different clinical specialties.

Purpose of the study: Non-technical skills (NTS),

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as part of so-called human factors, are interpersonal and cognitive skills[1]. Training of NTS aims to improve the performance of medical teams and to decrease medical errors. The Red Cross and the Medical University of Graz run the education program for medical students as rescue medics with special emergency skill intubation and artificial respiration (NKI-RM) in Graz, Austria. Purpose of this study is to design a longitudinal concept integrating NTS in NKI-RM education and test its feasibility by means of pilot workshops. Materials and methods: The longitudinal teaching concept targets three time

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points throughout the education program: (1) the team assistance seminar, required for onboarding the Graz emergency medical service (EMS), (2) the basic seminar before picking up responsibility as a NKI-RM in training, and (3) the NKI seminar itself. The evaluation period ran from 2016-2018. Results: The first part consisted of interactive workshops using training videos to facilitate active knowledge acquisition. The second part included the ZIN Obelisk game[2] for critical reflection and assessment of one's own behavior. The third part encompassed the active recognition and application of NTS using

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the NTS-Bingo[3]. Additionally, the team checklist by Cooper[4] was used in debriefing scenario-based simulations. Eight pilot workshops were conducted between 2016 and 2018. Conclusions: The amount of pilot workshops shows that a systematic integration of NTS in an educational program is feasible within a short time span. The administration of different teaching tools takes into account the progress during the educational program. The application of active teaching methodologies should guarantee a high degree of educational sustainability aiming for a practical application

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of NTS in the Graz EMS. A follow-up project for an in-depth analysis of effects of the integration of NTS in the educational program is being planned.References[1] Advanced Life Support Group (2013) Human Factors in the Healthcare Setting. BMJ Books, Wiley-Blackwell.[2] Francis D, Young D (1979). Improving work groups, a practical manual for team building. University Associates, San Diego, California. [3] Dieckmann P, Glavin R, Jepsen RMHG, Krage R (2016) Non-Technical Skills Bingo - a game to facilitate the learning of complex concepts. Adv Simul 1:23[4] Cooper S, Cant R, Porter J et al (2010) Rating

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medical emergency teamwork performance: development of the Team Emergency Assessment Measure (TEAM). Resuscitation 81(4):446-452. In light of new recommendations for intrapartum care, this fully updated second edition offers a review of best practice in all aspects of labour and delivery. This authoritative guide incorporates revised recommendations from the latest MBRRACE-UK Report, NICE guidelines, Cochrane Reviews and RCOG Green-top Guidelines to provide advice that is in line with the latest research and practice. New chapters cover the aspects of non-technical skills, ranging

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from leadership and team work to situational awareness and decision making. This edition also emphasises the problem of adherent placenta and discusses how it should be managed. With its modern, evidence-based approach, Best Practice in Labour and Delivery is the ideal textbook for those training in labour ward practice and studying for postgraduate examinations. Offering clear and practical guidance, this comprehensive book will help all obstetricians, obstetric anaesthetists, midwives and nurse practitioners to understand and deliver the best clinical care to patients.

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