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Titolo	Computational Forensics [[electronic resource]] : 5th International Workshop, IWCF 2012, Tsukuba, Japan, November 11, 2012 and 6th International Workshop, IWCF 2014, Stockholm, Sweden, August 24, 2014, Revised Selected Papers / / edited by Utpal Garain, Faisal Shafait
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Descrizione fisica	1 online resource (X, 213 p. 104 illus.)
Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 8915
Disciplina	363.250285
Soggetti	Pattern recognition Optical data processing Artificial intelligence Natural language processing (Computer science) Pattern Recognition Image Processing and Computer Vision Artificial Intelligence Natural Language Processing (NLP)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Biometrics -- Document image inspection -- Applications.
Sommario/riassunto	This book constitutes the refereed post-conference proceedings of the 5th and 6th International Workshops on Computational Forensics, IWCF 2012 and IWCF 2014, held in Tsukuba, Japan, in November 2010 and August 2014. The 16 revised full papers and 1 short paper were carefully selected from 34 submissions during a thorough review process. The papers are divided into three broad areas namely biometrics; document image inspection; and applications.

2. Record Nr.	UNINA9910830764603321
Autore	Eckert Michael <1949->
Titolo	The dawn of fluid dynamics [[electronic resource]] : a discipline between science and technology / / Michael Eckert
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ISBN	1-280-92163-3 9786610921638 3-527-61073-1 3-527-61074-X
Descrizione fisica	1 online resource (298 p.)
Disciplina	530.429 532 532.00904
Soggetti	Fluid dynamics - History Fluid dynamics - Research - History
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The Dawn of Fluid Dynamics A Discipline between Science and Technology; Contents; Preface; 1 Diverging Trends before the Twentieth Century; 1.1 Galileo's Abstraction; 1.2 Hogs' Bladders in St. Paul's Cathedral; 1.3 Ballistics; 1.4 D'Alembert's Paradox; 1.5 New Attempts to Account for Fluid Friction; 1.6 Revival of Ideal Fluid Theory; 1.7 Reynolds's Investigations of "Direct or Sinuous" Flow; 1.8 Hydraulics and Aerodynamics: A Turn Towards Empiricism; 1.9 Fluid Mechanics ca. 1900; 2 The Beginnings of Fluid Dynamics in Gottingen, 1904-1914; 2.1 Prandtl's Route to Boundary Layer Theory 2.2 "Per Experimentum et Inductionem Omnia"2.3 The First Doctoral Dissertations on Boundary Layers; 2.4 Airship Research; 2.5 The Discovery of the Turbulent Boundary Layer; 2.6 The Beginnings of Airfoil Theory; 3 Aviation and the Rise of Aerodynamics in the First World War; 3.1 A Symbiotic Relationship; 3.2 War Contracts; 3.3 Gottingen Profiles; 3.4 Max Munk and the Foundation of Airfoil Theory; 3.5 Theory and Practice in Airplane Design; 4 The Internationalization

of Fluid Mechanics in the 1920s; 4.1 American Emissaries at Prandtl's Institute; 4.2 Standardization
 4.3 International Conferences 4.4 Applied Mathematics and Mechanics: A New International Discipline Between Science and Technology; 4.5 Internationality in Practice: Max Munk at the NACA; 5 A "Working Program" for Research on Turbulence; 5.1 Turbulent Pipe Flow; 5.2 Prandtl's Research Program on Turbulence; 5.3 The Mixing Length Concept for the Fully Developed Turbulence; 5.4 A Kind of Olympic Games; 5.5 Wind Tunnel Turbulence; 6 Aerodynamics Comes of Age; 6.1 How Aerodynamics Became Institutionalized at Technical Universities; 6.2 Glider Flight
 6.3 Karman and Junkers: The Beginnings of Industrial Consulting in Aeronautics 6.4 Profile Measurements; 6.5 Airfoil Theory; 7 New Applications; 7.1 Gas Dynamics; 7.2 Cavitation; 7.3 Meteorological and Geophysical Fluid Dynamics; 7.4 The Scope of Fluid Dynamics by the Early 1930s; 8 Prandtl, Fluid Dynamics and National Socialism; 8.1 Preparing for War: Increased Funding for Prandtl's Institute; 8.2 Aeronautical Science as an Instrument of Nazi Propaganda; 8.3 Goodwill Ambassador; 9 New Centers; 9.1 Aachen; 9.2 Pasadena; 9.3 Zurich; 10 Fluid Dynamics on the Eve of the Second World War
 10.1 Airfoil Theory 10.2 Turbulence; 10.3 Gas Dynamics; 11 Epilogue; Appendix; Abbreviations; References; Author Index; Name Index; Subject Index

Sommario/riassunto

This is the first publication to describe the evolution of fluid dynamics as a major field in modern science and engineering. It contains a description of the interaction between applied research and application, taking as its example the history of fluid mechanics in the 20th century. The focus lies on the work of Ludwig Prandtl, founder of the aerodynamic research center (AVA) in Göttingen, whose ideas and publications have influenced modern aerodynamics and fluid mechanics in many fields. While suitable for others, this book is intended for natural scientists and engineers as well as his
