

# Artificial Intelligence Technical Publications

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## Artificial Intelligence Technical Publications

### **Robustness and Explainability of Artificial Intelligence**

How to cite this report: Hamon, R, Junklewitz, H, Sanchez, I Robustness and Explainability of Artificial Intelligence - From technical to policy solutions , EUR 30040, Publications Office of the European Union, Luxembourg, Luxembourg, 2020, ISBN 978-92-79-14660-5

### **Artificial Intelligence - IEEE**

encouraging and stimulating the development of artificial intelligence while protecting the interests of the public<sup>4 5 6</sup> To ensure that artificial intelligence serves the interests of society, IEEE urges governments to adopt policies that: 1 Increase AI technical expertise within governments and foster greater

### **ARTIFICIAL INTELLIGENCE AND BIG DATA**

artificial intelligence and big data I DESCRIPTION 2 An algorithm is a process or a set of rules to be followed in calculations or other problem-solving operations, especially by a computer

### **with Artificial Intelligence**

Artificial Intelligence has progressed in fits and starts since the term was first coined in 1956 by the American computer scientist John McCarthy In the 1980s and 1990s, AI was focussed on rule-based 'expert systems' that implemented predefined logical rules Since the 2000s, data-driven AI has emerged as the main enabler of technologies

## AI Watch National strategies on Artificial Intelligence A ...

How to cite this report: Vincent Van Roy, AI Watch - National strategies on Artificial Intelligence: A European perspective in 2019, EUR 30102 EN, Publications Office of the European Union, Luxembourg, 2020, ISBN 978-92-76-16409-8, doi:102760/602843, JRC119974

### Artificial intelligence (AI) in healthcare and research

human intelligence, such as reasoning, learning and adaptation, sensory understanding, and interaction<sup>1</sup> Currently, most applications of AI are narrow, in that they are only able to carry out specific tasks or solve pre-defined problems<sup>2</sup> Artificial intelligence (AI) in healthcare and research

### Application of Artificial Intelligence Technology in ...

N Nozaki et al: Application of Artificial Intelligence Technology in Product Design specific product categories The second initiative was to review the feature vectors to be input as training data During the learn-ing model creation process, we surveyed PCB designers about ...

### ARTIFICIAL INTELLIGENCE IN LOGISTICS

and disinterest known as 'AI Winters' as technical limita-tions were discovered As you can see in figure 1, today we are once again in an 'AI Spring' Artificial intelligence can be defined as human intelligence exhibited by machines; systems that approximate, mimic, ...

### The Impact of Artificial Intelligence on Innovation

quantitative empirical evidence on the evolution of different areas artificial intelligence in terms of scientific and technical outputs of AI researchers as measured (imperfectly) by the publication of papers and patents from 1990 through 2015 In particular, we develop what we believe is the

### PREPARING FOR THE FUTURE OF ARTIFICIAL INTELLIGENCE

PREPARING FOR THE FUTURE OF ARTIFICIAL INTELLIGENCE <sup>2</sup> Given the strategic importance of AI, moreover, it is appropriate for the Federal Government to monitor developments in the field worldwide in order to get early warning of important changes arising elsewhere in ...

### Building Ethics into Artificial Intelligence

an analysis of recent advances in technical solution-s for AI governance By reviewing publications in leading AI conferences including AAAI, AAMAS, ECAI and IJCAI, we propose a taxonomy which articial general intelligence (AGI)[Goertzel and Pennachin, 2007] research aiming to develop AI with capabilities match-

### The Weaponization of Increasingly Autonomous Technologies

<sup>7</sup> Adapted from Nils J Nilsson, The Quest for Artificial Intelligence: A History of Ideas and Achievements, Cambridge University Press, 2010 <sup>8</sup>

Adapted from Shane Legg and Marcus Hutter, "A ollection of Definitions of Intelligence", Technical Report IDSIA-07-07, 15 June 2007, p 9

### Robots and the Workplace of the Future

artificial intelligence Though there is no commonly agreed definition of artificial intelligence the term is often highly emotive, as it implies a parallel version of - and potentially superior substitute for - human intelligence, for which there is equally no agreed definition Complicating the issue further is ...

### An Introduction to Artificial Intelligence and Legal ...

artificial intelligence can play a useful legal role as a diagnostic and a checklist Artificial intelligence can act as backstop for human reasoning to prevent human error, such as oversight or omission of potential claims and defences, and guide potential lines of argument A ...

### Artificial intelligence: opportunities and implications ...

Artificial intelligence is not a distinct technology It depends for its power on a number of prerequisites: computing power, bandwidth, and large-scale

data sets, all of which are elements of 'big data', the potential of which will only be realised using artificial intelligence If data is the

### **Real-time use of artificial intelligence in the evaluation ...**

Real-time use of artificial intelligence in the uation of BE 1 2 In our initial publications, we devel-oped a computer-aided diagnosis (CAD) model and of the manuscript, administrative and technical support, and study supervision AE and RM contributed equally

### **Artificial Social Intelligence - CASOS**

artificial intelligence technology: symbolic processors, expert systems, neural networks, genetic algorithms and classifier systems The first major accomplishments of artificial social intelligence (ASI) have been in the realm of theory, where these techniques have inspired new theories as well as helping to render existing theories more rigorous

### **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

Artificial Intelligence (from noon-1 pm on Tuesday March 10, at the Orange County Convention Center, Room W303A) More spe-cifically, she will explore how Dubai is using AI and ML to accurately predict which patients are at risk of sepsis, enabling for rapid ordering of appropriate diagnostic tests and implementation of treatment AI

### **American Artificial Intelligence Initiative: Year One ...**

Dear Colleagues, As we mark one year since President Donald J Trump launched the American Artificial Intelligence Initiative, the Trump Administration has made critical progress in carrying out

### **Automation, Artificial Intelligence, On-demand Labour and ...**

Automation, Artificial Intelligence, On-demand Labour and Other Flexible Forms of Labour in the New IDB Employer Survey "Skills at Work in LAC"  
Terence Hogarth IDB-TN-1332 Labor Markets Division TECHNICAL NOTE N° October 2017