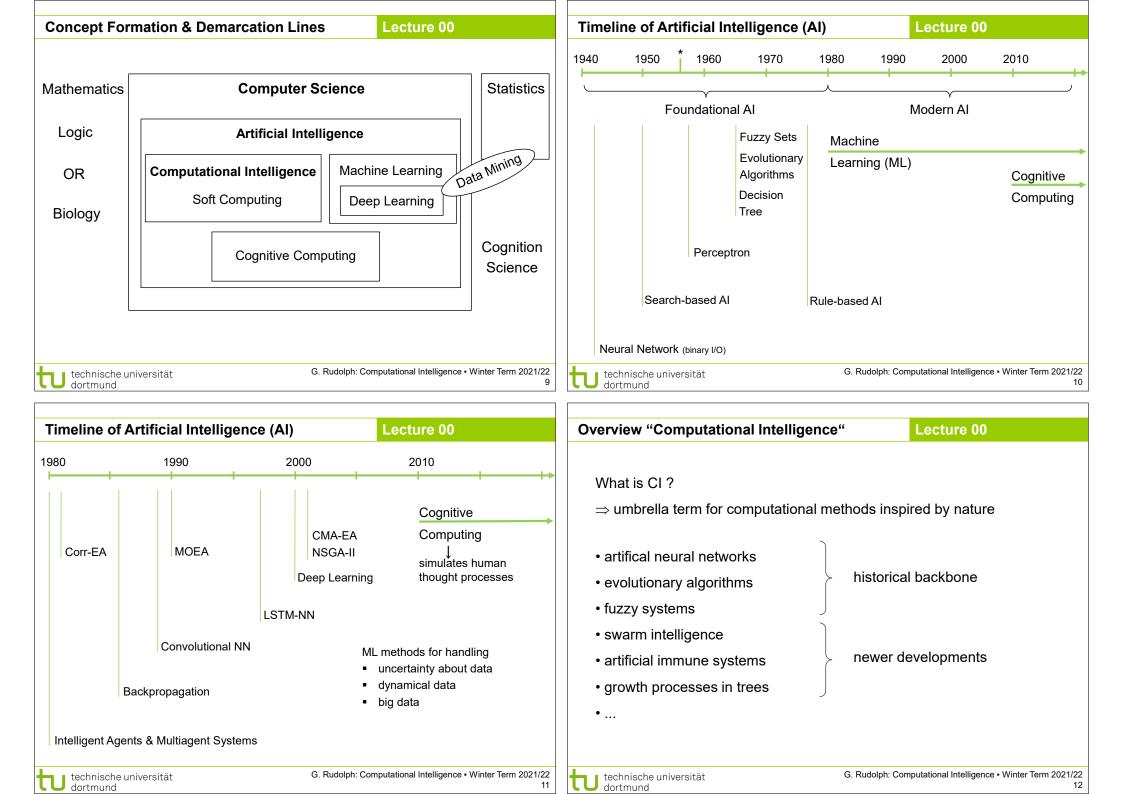
Computational Intelligence Winter Term 2021/22		Content	Lecture 00
		<ul> <li>Organization (Lectures / Tutorials)</li> <li>Disambiguation: <i>Computational Intelligence</i></li> </ul>	
Prof. Dr. Günter Rudolph Lehrstuhl für Algorithm Engineering (LS 11) Fakultät für Informatik TU Dortmund			
		technische universität dortmund	G. Rudolph: Computational Intelligence • Winter Term 2021/22 2
Organizational Issues	Lecture 00	Organizational Issues	Lecture 00
Who are you? either studying " <i>Automation and Robotics</i> " (Master of or studying " <i>Informatics</i> " (Bachelor of Science) or studying " <i>Data Science</i> " (Master of Science) or let me know!	Science)	Who am I ? Günter Rudolph Fakultät für Informatik, LS 11 Guenter.Rudolph@tu-dortmund.de OH-14, Room 2.32 office hours: Tuesday, 10:30–11:30am and by appointment	<ul> <li>← best way to contact me</li> <li>← if you want to see me         (after pandemic)</li> </ul>
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Organizational Issues	Lecture 00	Organizatio	nal Issues		Lecture 00	
Hybrid setting due to current state of Corona	a pandemic	Lectures	Wednesday	10:15-11:45	OH 14 / E23,	weekly
<ul> <li>Lecture:</li> <li>in lecture hall <ul> <li>with medical mask,</li> <li>3G-rule: admission only if vaccinated,</li> </ul> </li> <li>remote / online <ul> <li>via Zoom,</li> <li>streaming from lecture hall</li> </ul> </li> </ul>	slides of lecture published on web page	Tutorials	from 13-Oct-2021 either Wednesday or Friday or Thursday from 20-Oct-2021	12:15-13:45 12:15-13:45 12:15-13:45	OH 12 / 3.031 OH 12 / 3.031 online (Zoom)	≈ bi-weekly ≈ bi-weekly
<ul> <li>streaming from lecture hall weekly</li> <li><u>Tutorial:</u> <ul> <li>in classroom (→ registration required)</li> <li>with medical mask,</li> <li>3G-rule: admission only if vaccinated, recovered or tested</li> </ul> </li> <li>remote / online         <ul> <li>via Zoom (purely digital: no streaming from classroom)</li> </ul> </li> </ul>		Tutor       Marius Bommert, MSc, LS 11 Florian Wellner, LS11         Information (web pages & moodle) http://ls11-www.cs.tu-dortmund.de/people/rudolph/ teaching/lectures/CI/WS2021-22/lecture.jsp         Slides       see moodle see web page				
dortmund	oh: Computational Intelligence • Winter Term 2021/22 5		universität	·	h: Computational Intelligence	Winter Term 2021
Drganizational Issues	Lecture 00	Prerequisite	es estatution estatu estatution estatution esta		Lecture 00	
<b>Exams</b> Effective since winter term 2014/15: written exa	am (not oral)	Knowled • mathem	-			
<ul> <li>Informatik, Bachelor: Module</li> </ul>	$\rightarrow$ written exam (90 min)	• program • logic is helpful.				
<ul> <li>Automation &amp; Robotics, Master: Module</li> </ul>	$\rightarrow$ written exam (90 min)					
<ul> <li>Data Science / Statistics, Master: Module</li> </ul>	$\rightarrow$ written exam (90 min)					
• whoever else	$\rightarrow$ written exam (90 min)	covered	t <b>if something is u</b> I in the lecture s to literature	nknown to me?		
mandatory for registration to written exam: m	ust pass tutorial!	and do	on't hesitate to asl	<b>k</b> !		
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## Overview "Computational Intelligence"

## Lecture 00

- term "computational intelligence" made popular by John Bezdek (FL, USA)
- originally intended as a demarcation line
- $\Rightarrow$  establish border between artificial and computational intelligence
- nowadays: blurring border  $\rightarrow$  current widespread perception: CI  $\subset$  AI

## our goals:

- 1. know what CI methods are good for!
- 2. know when refrain from CI methods!
- 3. know why they work at all!
- 4. know how to apply and adjust CI methods to your problem!

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