CPC COOPERATIVE PATENT CLASSIFICATION

G PHYSICS

(NOTES omitted)

INSTRUMENTS

G06 COMPUTING; CALCULATING OR COUNTING

(NOTES omitted)

G06N COMPUTING ARRANGEMENTS BASED ON SPECIFIC COMPUTATIONAL MODELS

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

3/00	Computing arrangements based on biological models	3/0442 characterised by memory or gating, e.g. long short-term memory [LSTM] or gated
3/002	• {Biomolecular computers, i.e. using biomolecules,	recurrent units [GRU]
	proteins, cells (using DNA <u>G06N 3/123</u> ; using neurons G06N 3/061)}	<u>WARNING</u>
3/004 3/006	 Artificial life, i.e. computing arrangements simulating life based on simulated virtual individual or collective 	Group <u>G06N 3/0442</u> is incomplete pending reclassification of documents from group <u>G06N 3/044</u> .
	life forms, e.g. social simulations or particle swarm optimisation [PSO]	Groups G06N 3/044 and G06N 3/0442 should be considered in order to perform
3/008	based on physical entities controlled by simulated	a complete search.
	intelligence so as to replicate intelligent life forms, e.g. based on robots replicating pets or	3/045 Combinations of networks
	humans in their appearance or behaviour	<u>WARNING</u>
3/02	Neural networks	Group G06N 3/045 is impacted by
3/04	. Architecture, e.g. interconnection topology	reclassification into group G06N 3/0455.
	WARNING	Groups G06N 3/045 and G06N 3/0455
	Group G06N 3/04 is impacted by reclassification into groups G06N 3/0464,	should be considered in order to perform a complete search.
	G06N 3/0475, G06N 3/0495 and G06N 3/0499.	3/0455 Auto-encoder networks; Encoder-decoder networks
	All groups listed in this Warning should be considered in order to perform a complete	<u>WARNING</u>
	search.	Group <u>G06N 3/0455</u> is incomplete pending reclassification of documents
3/0409	{Adaptive resonance theory [ART] networks}	from group <u>G06N 3/045</u> .
3/0418	{using chaos or fractal principles}	Groups G06N 3/045 and G06N 3/0455
3/042	• • • Knowledge-based neural networks; Logical representations of neural networks	should be considered in order to perform a complete search.
3/043	based on fuzzy logic, fuzzy membership or	•
	fuzzy inference, e.g. adaptive neuro-fuzzy	3/0463 {Neocognitrons}
3/044	inference systems [ANFIS] Recurrent networks, e.g. Hopfield networks	3/0464 Convolutional networks [CNN, ConvNet]
3/044		<u>WARNING</u>
	WARNING	Group G06N 3/0464 is incomplete pending
	Group G06N 3/044 is impacted by	reclassification of documents from group

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G06N 3/04.

complete search.

Groups G06N 3/04 and G06N 3/0464

should be considered in order to perform a

reclassification into group G06N 3/0442.

should be considered in order to perform a

Groups G06N 3/044 and G06N 3/0442

complete search.

3/047	Probabilistic or stochastic networks WARNING	3/084 3/086	Backpropagation, e.g. using gradient descent using evolutionary algorithms, e.g. genetic algorithms or genetic programming
	Group <u>G06N 3/047</u> is impacted by reclassification into group <u>G06N 3/0475</u> .	3/088	Non-supervised learning, e.g. competitive learning
	Groups G06N 3/047 and G06N 3/0475 should be considered in order to perform a	3/0895	 Weakly supervised learning, e.g. semi- supervised or self-supervised learning
	complete search.		WARNING
3/0475	WARNING		Group <u>G06N 3/0895</u> is incomplete pending reclassification of documents from group <u>G06N 3/08</u> .
	Group G06N 3/0475 is incomplete pending reclassification of documents from groups G06N 3/04 and G06N 3/047. Groups G06N 3/04, G06N 3/047, and		Groups G06N 3/08 and G06N 3/0895 should be considered in order to perform a complete search.
	G06N 3/0475 should be considered in order	3/09	 Supervised learning
	to perform a complete search.		WARNING
3/048 3/049	 Activation functions Temporal neural networks, e.g. delay elements, oscillating neurons or pulsed inputs 		Group G06N 3/09 is incomplete pending reclassification of documents from group G06N 3/08.
3/0495	Quantised networks; Sparse networks; Compressed networks		Groups G06N 3/08 and G06N 3/09 should be considered in order to perform a
	WARNING		complete search.
	Group G06N 3/0495 is incomplete pending reclassification of documents from group	3/091	Active learning
	<u>G06N 3/04</u> .		WARNING
	Groups <u>G06N 3/04</u> and <u>G06N 3/0495</u> should be considered in order to perform a complete search.		Group <u>G06N 3/091</u> is incomplete pending reclassification of documents from group <u>G06N 3/08</u> .
3/0499	Feedforward networks		Groups G06N 3/08 and G06N 3/091 should be considered in order to perform a complete search.
	WARNING		
	Group G06N 3/0499 is incomplete pending reclassification of documents from group G06N 3/04.	3/092	Reinforcement learning WARNING
	Groups G06N 3/04 and G06N 3/0499 should be considered in order to perform a complete search.		Group <u>G06N 3/092</u> is incomplete pending reclassification of documents from group <u>G06N 3/08</u> .
3/06	Physical realisation, i.e. hardware implementation of neural networks, neurons or parts of neurons		Groups <u>G06N 3/08</u> and <u>G06N 3/092</u> should be considered in order to perform a complete search.
3/061	• • • {using biological neurons, e.g. biological	2/004	•
3/063	neurons connected to an integrated circuit} using electronic means	3/094	Adversarial learning
3/065	Analogue means		WARNING
3/067	using optical means		Group G06N 3/094 is incomplete pending
3/0675	• • • {using electro-optical, acousto-optical or opto-electronic means}		reclassification of documents from group G06N 3/08.
3/08	• Learning methods		Groups G06N 3/08 and G06N 3/094
	WARNING		should be considered in order to perform a complete search.
	Group G06N 3/08 is impacted by reclassification into groups G06N 3/0895,	3/096	 Transfer learning
	G06N 3/09, G06N 3/091, G06N 3/092,		WARNING
	G06N 3/094, G06N 3/096, G06N 3/098 and G06N 3/0985.		Group G06N 3/096 is incomplete pending reclassification of documents from group
	All groups listed in this Warning should be		G06N 3/08.
	considered in order to perform a complete search.		Groups G06N 3/08 and G06N 3/096 should be considered in order to perform a
3/082	• • • modifying the architecture, e.g. adding, deleting or silencing nodes or connections		complete search.

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Group G06N 3/098 is incomplete pending reclassification of documents from group G16N 3/098 and G	3/098	• • • Distributed learning, e.g. federated learning WARNING	7/046	• • • {Implementation by means of a neural network (neural networks using fuzzy logic	
GOON 3.08 and GOON 3.098 should be considered in order to perform a complete search. 3.0985 Hyperparameter optimisation, Meta-learning; Learning-to-learn warming Learning-to-learn by Caroning-to-learn and Complete search. WARNING Group GOON 3.08 and GOON 3.0986 is incomplete pending reclassification of documents from group GOON 1.098. Groups GOON 3.08 and GOON 3.0985 should be considered in order to perform a complete search. 3/10 Interfaces, programming languages or software development kits, e.g. for simulating neural networks 3/12 DNA computing 3/12 DNA computing 3/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 5/12 DNA computing 5/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 5/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 5/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 5/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 5/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 5/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 5/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 5/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 5/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 5/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 5/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 5/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 5/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 5/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 6/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 6/12 Evolutionary algorithms, e.g. genetic algorithms or genetic programming 6/12 Evolutionary algorithms, e.g. genetic algorithms or genetic progr		Group G06N 3/098 is incomplete pending			
should be considered in order to perform a complete search. 3.0985 Hyperparameter optimisation; Meta-learning; Learning to-learn WARNING Group G06N 3.0983 is incomplete pending reclassification of documents from group G06N 1000 is impacted by reclassification into groups G06N 1000 is G06N 1000 in G06N 1000		<u>G06N 3/08</u> .		Quantum computing, i.e. information processing	
3.0988 Hyperparameter optimisation; Meta-learning; Learning-to-learn WARNING Group Golo 3.0985 is incomplete pending reclassification of documents from group Golo 3.098. Group Golo 3.098 and Golo 3.0985 should be considered in order to perform a complete search. 3.10		should be considered in order to perform a			
Learning-to-learn WARNING Group GONN 30985 is incomplete pending reclassification of documents from group GONN 1020, GONN 1070 and GONN 1070		complete search.		WARNING	
Group GOON 3.0985 is incomplete pending reclassification of documents from group GOON 3.098 (GOON 3.0985) about the considered in order to perform a complete search. 3710 Interfaces, programming languages or software development kits, e.g. for simulating neural networks 3710 Interfaces, programming languages or software development kits, e.g. for simulating neural networks 3712 using genetic models 3712 using genetic models 3712 in JNA computing 3712 in JNA computing 3712 in JNA computing 3713 DNA computing 3714 in JNA computing 3715 in JNA computing 3716 in JNA computing 3717 in JNA computing 3718 in JNA computing 3719 in JNA computing 3710 in JNA computing 3710 in JNA computing 37110 in JNA computing 37110 in JNA computing 37111 in JNA	3/0985			into groups G06N 10/20, G06N 10/40,	
Group G06N 1008 is incomplete pending reclassification of documents from group G06N 308 and G06N 30985 should be considered in order to perform a complete search. Groups G06N 308 and G06N 30985 should be considered in order to perform a complete search. 3/10		WARNING			
Groups G06N 3.08 and G06N 3.0985 should be considered in order to perform a complete search. Interfaces, programming languages or software development kits, e.g. for simulating neural networks 3/10		reclassification of documents from group G06N 3/08.	10/20	considered in order to perform a complete search. Models of quantum computing, e.g. quantum	
complete search. 3/10					
3/10 - Interfaces, programming languages or software development kits, e.g. for simulating neural networks 3/10 - (Shells for specifying net layout) 3/12 - using genetic models 3/12 - using genetic models 3/12 - Evolutionary algorithms, e.g. genetic algorithms or genetic programming 3/12 - Evolutionary algorithms, e.g. genetic algorithms or genetic programming 3/12 - Evolutionary algorithms, e.g. genetic algorithms or genetic programming 3/12 - Dynamic search techniques; Heuristics; Dynamic trees; Branch-and-bound 5/00 - Computing arrangements using knowledge-based models 5/01 - Dynamic search techniques; Heuristics; Dynamic trees; Branch-and-bound 5/012 - Knowledge representation; Symbolic representation 5/012 - Knowledge representation; Symbolic representation 5/012 - Knowledge engineering; Knowledge acquisition 5/012 - Extracting rules from data 5/014 - (Abduction) 5/015 - Extracting rules from data 5/014 - (Abduction) 5/015 - Explanation of inference; Explainable artificial intelligence [XAI]; Interpretable artificial intelligence [XAI]; Interpretable artificial intelligence 5/014 - Poroward inferencing; Production systems 5/014 - Poroward inferencing; Production systems 5/015 - Probabilistic graphical models, e.g. probabilistic metworks 5/018 - Probabilistic graphical models, e.g. probabilistic metworks 5/019 - Probabilistic graphical models, e.g. probabilistic metworks 5/019 - Computing arrangements based on biological models G608/3000; computing arrangements using knowledge-based models 6/000/5/200 - (Development tools for entering the parameters of a fuzzy system) 7/02 - (Development tools for entering the parameters of a fuzzy system) 7/02 - (Development tools for entering the parameters of a fuzzy system) 7/03 - (Analogue or partially analogue				WARNING	
networks 1712	3/10	Interfaces, programming languages or software		reclassification of documents from group	
3/123 . using genetic models 3/123 . DNA computing 3/126 . Evolutionary algorithms, e.g. genetic algorithms or genetic programming 5/00 Computing arrangements using knowledge-based models 5/01 . Dynamic search techniques; Heuristics; Dynamic trees; Branch-and-bound 5/013 . (Automatic theorem proving) 5/02 . Knowledge representation; Symbolic representation 5/022 . (Knowledge representation; Symbolic representation 5/023 . (Erames) 5/024 . (Erames) 5/025 Extracting rules from data 5/027 . (Frames) 5/034 . (Abduction) 5/042 . (Backward inferencing) 5/043 . (Backward inferencing) 5/044 . (Backward inferencing) 5/045 . (Explanation of inference; Explainable artificial intelligence) 5/046 . Forward inferencing; Production systems 5/047 . Pattern matching networks; Rete networks 5/048 . Fuzzy inferencing 7/00 Computing arrangements based on specific mathematical models 7/00 Linguage and foliation of the probabilistic graphical models, e.g. probabilistic networks 7/02 . (Isaging roung arrangements based on biological models G06N 3.00; computing arrangements using knowledge-based models G06N 5.00 7/023 . (Learning or tuning the parameters of a fuzzy system) 7/04 . (Development tools for entering the parameters of a fuzzy system) 7/04 . (Physical realisation) 7/04 . (Physical realisation) 7/04 . (Physical realisation) 7/04 . Prophabilistic graphical models, e.g. probabilistic networks 7/02 . (South of the propension) 7/03 . (Development tools for entering the parameters of a fuzzy system) 7/04 . (Physical realisation) 7/05 . (Partifical intelligence) 7/06 . (Pugnetic pending realisation of documents from group Go6N 10:00 7/05 . (Prophabilistic graphical models, e.g. probabilistic networks 7/06 . (Pugnetic pending realisation) 7/07 . (Propabilistic graphical models Go6N 3:00) 7/08 . (Propabilistic graphical models Go6N 3:00) 7/09 . (Propabilistic graphical models Go6N 3	3/105	networks			
3/123 DNA computing 3/126 . Evolutionary algorithms, e.g. genetic algorithms or genetic programming recessors or components for manipulating qubits, e.g. qubit coupling or qubit control 5/00 Computing arrangements using knowledge-based models 5/01 . Dynamic search techniques; Heuristics; Dynamic trees; Branch-and-bound does on look trees; Branch-and-bound trees; Branch-and-bound trees; Branch-and-bound trees; Branch-and-bound trees; Branch-and-bound does on look trees; Branch-and-bound trees; Branch-and-bound trees; Branch-and-bound and Goon 10/40 should be considered in order to perform a complete search. 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60 10/60					
5/00 Computing arrangements using knowledge-based models 5/01 Dynamic search techniques; Heuristics; Dynamic trees; Branch-and-bound 5/01	3/123		10/40		
Computing arrangements using knowledge-based models	3/126		10/40	processors or components for manipulating qubits,	
trees; Branch-and-bound 5/013 . {Automatic theorem proving} 5/02 . Knowledge representation; Symbolic representation 5/02 . Knowledge engineering; Knowledge acquisition 5/02 . Extracting rules from data 5/027 . {Frames} 5/027 . {Frames} 5/028 Extracting rules from data 5/04 {Abduction} 5/04 {Backward inferencing} 5/042 {Backward inferencing} 5/043 Distributed expert systems; Blackboards 5/045 Explanation of inference; Explainable artificial intelligence [XAI]; Interpretable artificial intelligence 5/046 Forward inferencing; Production systems 5/047 Pattern matching networks; Rete networks 5/048 Fuzzy inferencing 7/00 Computing arrangements based on specific mathematical models 7/01 . Probabilistic graphical models, e.g. probabilistic networks 7/02 using fuzzy logic (computing arrangements based on biological models G06N 3/00; computing arrangements using knowledge-based models G06N 5/000 7/023 . {Learning or tuning the parameters of a fuzzy system} 7/04 Physical realisation 7/04	5/00				
5/02		trees; Branch-and-bound		reclassification of documents from group	
5/022 Knowledge engineering; Knowledge acquisition 5/025 Extracting rules from data 5/027 [Frames] 10/60 5/026 [Frames] 10/60 5/040 [Inference or reasoning models 5/041 {Abduction} 5/042 {Backward inferencing} 5/043 Distributed expert systems; Blackboards 5/045 Explanation of inference; Explainable artificial intelligence [XAI]; Interpretable artificial intelligence [XAI]; Interpretable artificial intelligence 5/046 Forward inferencing; Production systems 5/047 Pattern matching networks; Rete networks 5/048 Fuzzy inferencing 5/049 Computing arrangements based on specific mathematical models 7/00 Computing arrangements based on specific mathematical models 7/01 . Probabilistic graphical models, e.g. probabilistic networks 7/02 (Learning or tuning the parameters of a fuzzy system) 7/023 (Learning or tuning the parameters of a fuzzy system) 7/04 Physical realisation 7/04 Physical realisation 7/04 (Analogue or partially analogue		The state of the s			
Solution Search Search Search					
5/027 {Frames} 5/04 . Inference or reasoning models 5/041 {Abduction} 5/042 {Backward inferencing} 5/043 Distributed expert systems; Blackboards 5/045 . Explanation of inference; Explainable artificial intelligence [XAI]; Interpretable artificial intelligence [XAI]; Interpretable artificial intelligence 5/046 . Forward inferencing; Production systems 5/047 Pattern matching networks; Rete networks 5/048 . Fuzzy inferencing 7/00 Computing arrangements based on specific mathematical models 7/01 . Probabilistic graphical models, e.g. probabilistic networks 7/02 . using fuzzy logic (computing arrangements based on biological models G06N 3/00; computing arrangements using knowledge-based models G06N 5/00) 7/023 {Learning or tuning the parameters of a fuzzy system} 7/04 . Physical realisation 7/04 . Physical realisation 7/04 . Physical realisation 7/04 {Analogue or partially analogue} 10/60 . Quantum algorithms, e.g. based on quantum optimisation, quantum Fourier or Hadamard transforms 7/08 . Quantum Fourier or Hadamard transforms 7/08 . Quantum Fourier or Hadamard transforms 7/09 . Quantum Fourier or Hadamard transforms 7/00 . Quantum Fourier or Goon 10/60 is incomplete pending reclassification of documents from group e.g. surface codes or magic state distillation 7/00 . Quantum error correction, detection or prevention, e.g. surface codes or magic state distillation 7/00 . Quantum error correction, detection or prevention, e.g. surface codes or ma				• • •	
5/04			10/60	Quantum algorithms, a g. based on quantum	
5/041 {Abduction} 5/042 {Backward inferencing} 5/043 Distributed expert systems; Blackboards 5/045 Explanation of inference; Explainable artificial intelligence [XAI]; Interpretable artificial intelligence [XAII]; Interpretable artificial intelligence [XAII]; Interpretable a			10/00		
5/043 . Distributed expert systems; Blackboards 5/045 . Explanation of inference; Explainable artificial intelligence [XAI]; Interpretable artificial intelligence 5/046 . Forward inferencing; Production systems 5/047 Pattern matching networks; Rete networks 5/048 . Fuzzy inferencing 7/00 Computing arrangements based on specific mathematical models 7/01 . Probabilistic graphical models, e.g. probabilistic networks 7/02 . using fuzzy logic (computing arrangements based on biological models G06N 3/00; computing arrangements using knowledge-based models G06N 5/00) 7/023 . {Learning or tuning the parameters of a fuzzy system} 7/04 . Physical realisation 7/04 . Physical realisation 7/04 . Analogue or partially analogue		<u> </u>			
5/043 . Distributed expert systems; Blackboards 5/045 . Explanation of inference; Explainable artificial intelligence [XAI]; Interpretable artificial intelligence 5/046 . Forward inferencing; Production systems 5/047 . Pattern matching networks; Rete networks 5/048 . Fuzzy inferencing 7/00 Computing arrangements based on specific mathematical models 7/01 . Probabilistic graphical models, e.g. probabilistic networks 7/02 . using fuzzy logic (computing arrangements based on biological models G06N 3/00; computing arrangements using knowledge-based models G06N 5/00) 7/023 . {Learning or tuning the parameters of a fuzzy system} 7/04 . Physical realisation 7/04 . Physical realisation 7/04 . Analogue or partially analogue	5/042	• • {Backward inferencing}		WARNING	
intelligence [XAI]; Interpretable artificial interpretable artific	5/043	Distributed expert systems; Blackboards			
5/046 . Forward inferencing; Production systems 5/047 Pattern matching networks; Rete networks 5/048 Fuzzy inferencing 7/00 Computing arrangements based on specific mathematical models 7/01 . Probabilistic graphical models, e.g. probabilistic networks 7/02 . using fuzzy logic (computing arrangements based on biological models G06N 3/00; computing arrangements using knowledge-based models G06N 5/00) 7/023 {Learning or tuning the parameters of a fuzzy system} 7/04 . Physical realisation 7/04 . Physical realisation 7/04 . Analogue or partially analogue	5/045	intelligence [XAI]; Interpretable artificial		reclassification of documents from group	
5/047 Pattern matching networks; Rete networks 5/048 Fuzzy inferencing 7/00 Computing arrangements based on specific mathematical models 7/01 . Probabilistic graphical models, e.g. probabilistic networks 7/02 . using fuzzy logic (computing arrangements based on biological models G06N 3/00; computing arrangements using knowledge-based models G06N 10/00 7/023 {Learning or tuning the parameters of a fuzzy system} 7/024 Physical realisation 7/035 {Analogue or partially analogue} be considered in order to perform a complete search. 10/70 . Quantum error correction, detection or prevention, e.g. surface codes or magic state distillation WARNING Group G06N 10/70 is incomplete pending reclassification of documents from group G06N 10/00. Groups G06N 10/00 and G06N 10/70 should be considered in order to perform a complete search.	5/046	<u> </u>			
7/00 Computing arrangements based on specific mathematical models 7/01 Probabilistic graphical models, e.g. probabilistic networks 7/02 using fuzzy logic (computing arrangements based on biological models G06N 3/00; computing arrangements using knowledge-based models G06N 5/00) 7/023 • {Learning or tuning the parameters of a fuzzy system} 7/026 • {Development tools for entering the parameters of a fuzzy system} 7/04 • Physical realisation 7/043 • {Analogue or partially analogue}					
mathematical models 7/01 Probabilistic graphical models, e.g. probabilistic networks 7/02 using fuzzy logic (computing arrangements based on biological models G06N 3/00; computing arrangements using knowledge-based models G06N 5/00) 7/023 Learning or tuning the parameters of a fuzzy system} 7/026 Physical realisation 7/04 Physical realisation 7/043 Analogue or partially analogue	5/048	• • Fuzzy inferencing		search.	
networks 17/02 using fuzzy logic (computing arrangements based on biological models G06N 3/00; computing arrangements using knowledge-based models G06N 5/00) 17/023 Learning or tuning the parameters of a fuzzy system 17/026 Development tools for entering the parameters of a fuzzy system 17/027 Physical realisation 17/028 Analogue or partially analogue 18/029 Group G06N 10/70 is incomplete pending reclassification of documents from group G06N 10/00. 18/029 Groups G06N 10/00 and G06N 10/70 should be considered in order to perform a complete search.	7/00		10/70		
 using fuzzy logic (computing arrangements based on biological models G06N 3/00; computing arrangements using knowledge-based models G06N 5/00) (G06N 5/00) (Learning or tuning the parameters of a fuzzy system) (Development tools for entering the parameters of a fuzzy system) Physical realisation (Analogue or partially analogue) 	7/01				
 7/023 . {Learning or tuning the parameters of a fuzzy system} 7/026 . {Development tools for entering the parameters of a fuzzy system} 7/04 . Physical realisation 7/043 {Analogue or partially analogue 	7/02	on biological models <u>G06N 3/00</u> ; computing arrangements using knowledge-based models		reclassification of documents from group G06N 10/00.	
of a fuzzy system} 7/04 . Physical realisation 7/043 {Analogue or partially analogue	7/023	• • {Learning or tuning the parameters of a fuzzy			
7/04 Physical realisation 7/043 {Analogue or partially analogue	7/026	• • {Development tools for entering the parameters			
	7/04	Physical realisation			
	7/043				

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10/80

 Quantum programming, e.g. interfaces, languages or software-development kits for creating or handling programs capable of running on quantum computers; Platforms for simulating or accessing quantum computers, e.g. cloud-based quantum computing

WARNING

Group G06N 10/80 is incomplete pending reclassification of documents from group G06N 10/00.

Groups <u>G06N 10/00</u> and <u>G06N 10/80</u> should be considered in order to perform a complete search.

20/00 Machine learning

20/10

using kernel methods, e.g. support vector machines [SVM]

20/20

. Ensemble learning

99/00 Subject matter not provided for in other groups of this subclass

99/007

• {Molecular computers, i.e. using inorganic molecules (using biomolecules <u>G06N 3/002</u>)}

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