Seeds N@vi
Waseda University Technology・IP Seeds

WASEDA UNIVERSITY IP seeds List

2025/03/04

type of seeds	number	field	title	researcher	summary	patent number	posted
patent	617	Life sciences	Neutrophil function inspection system and method	Professor Faculty of Sport Sciences School of Sport and Sciences	This is a proposal for neutrophil function inspection system using a chemiluminescence method and hydrogel that can separate chemotactic cells or organisms. This system can easily take quantitative measurements of neutrophil functions (chemotactic activity, active oxygen-producing capacity) with short life span using whole blood. A study is currently being conducted on the measurement of the anti-oxidizing capacity of neutrophil on pectin and lycopene.		2014/04/03
patent	939	Life sciences	Simulated constricted blood vessel and manufacturing method thereof	Professor Faculty of Science and Engineering Graduate School of Advanced Science and Engineering Cooperative Major in Advanced Biomedical Sciences	This invention is an artificial blood vessel for modeling stenotic lesions caused by the calcification of blood vessels, and the manufacturing method thereof.Elasticity near to that of an actual human constricted blood vessel can be obtained by mixing calcium carbonate powder with silicon, painting it on the narrow part of a mold, covering it with a polyethylene resin tube, and then coating the entire tube model with silicon.		2014/04/03
patent	1117	Life sciences	Mutational analysis method for JAK2 genes	Professor Faculty of Science and Engineering	This method uses a fluorescent probe as a method of measuring the JAK2 gene mutations seen in chronic myeloproliferative disorders (MPDs). It enables quantification that is highly sensitive, simple, low cost, and high throughput.Applications to pharmaceutical screening methods, etc. are also expected.		2014/04/03
patent	94	Information	Sentence evaluating device and sentence evaluating program	Professor Faculty of Science and Engineering School of Creative Science and Engineering Center for English Language Education	This learning system aims to computerize the evaluation of answer sentences in English compositions in an objective manner, in line with actual situations. It not only assesses the similarity of words used between the model answer and the answer provided in English compositions, but conducts various evaluations through other unique elements.		2014/04/03
patent	139	Information	Measuring apparatus	Professor (retired) Faculty of Science and Engineering Waseda Research Institute for Science and Engineering	This invention is an apparatus used to measure the location of features in road areas. It enables the measuring of the location of features on roads except the white lines and on the sides of roads, using a mobile mapping system (MMS). In particular, it can measure locations to a high degree of accuracy for specular features such as glass and narrow-width features such as distance markers, which are difficult to measure using conventional MMS.		2014/04/03
patent	314	Information	Search method for similar cases of process state, process state prediction method, and storage media	Senior Research Professor (retired) Faculty of Science and Engineering School of Advanced Science and Engineering Department of Electrical Engineering and Bioscience	This invention conducts high-speed searches for the latest operation state of complex, non-linear, and non-stationary processes (such as blast furnaces) that are currently in operation, as well as similar past cases, accurately predicts the future state of processes, and provides online predictive methods that do not require updates.		2014/04/03
patent	445	Information	Stereoscopic image presentation apparatus	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering Department of Intermedia Art and Science	This apparatus is able to present accurate and natural stereoscopic images by controlling image presentation in real-time in response to changes in the playback environment, such as the angle of incline to the image presentation screen and the visual distance from the audience to the presentation screen. Hence, it does not simply provide a one-sided presentation of stereoscopic images to the audience, but is also able to present optimal stereoscopic images in an interactive manner depending on the movement or operation of the audience.		2014/04/03
patent	1009	Information	Item selection method and equipment	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering Department of Intermedia Art and Science	3D images are incorporated in movies, mobile phones, computer games, etc. and a lot of content and devices have been introduced to the market. This invention is a technology that focuses on the depth of focus of the eyes of the viewers to adjust and replay 3D images, and it enables viewers to enjoy 3D images without any sense of strangeness or feeling of fatigue.		2014/04/03
patent	1116	Information	Three-dimensional image presentation equipment	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering Department of Intermedia Art and Science	This is three-dimensional image presentation equipment that can express three-dimensional (3D) images naturally and in fine detail by combining multiple image presentation methods, including lenticular and other three-dimensional (3D) image presentation methods, with image presentation surfaces.		2014/04/03

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patent	692	Environment Life sciences	Lipolytic microorganism and method for treating wastewater containing oil and fat using the same	Guest Professor (retired) Faculty of Science and Engineering Waseda Research Institute for Science and Engineering	This invention relates to a novel microorganism that can efficiently break down fats and oils from animals and vegetables that are contained in wastewater from kitchens and other sources, as well as the enzymes that are generated by this microorganism. It is a method of treating wastewater that contains fats and oils. In addition to being highly effective in breaking down wide variety of animal and vegetable fats and oils, it also has superb ability in breaking down fats and oils particularly in lard and environments with low temperatures. As such, it is an effective technology for restaurants that use much lard and in restaurants located in cold locations.		2014/04/03
patent	2015	Nanotechnology / Materials	Biological Implant Material with Bone Seeking	Guest Senior Researcher (retired)	● Control surface morphology of implant in nanoscale. ● Combination of large and small nanostructures which has different functionalities, respectively.● Nanostructure formation process applicable for curved surfaces.	特開2019-202097	2020/02/10
patent	1123	Energy	An output restriction avoidance method for multiple-unit-connected photovoltaic power generation systems and the equipment necessary for the method	Professor Faculty of Science and Engineering School of Advanced Science and Engineering Department of Electrical Engineering and Bioscience	Photovoltaic power generation systems are able to correct inequalities in the volume of output restrictions between consumers (private homes) simply by adding functions to the existing equipment in multiple-unit-connected distribution systems.The systems measure the terminal voltage of the power conditioning subsystems (PCSs) installed in each home, calculate the difference between the power management value and the preset value, and then set the voltage rise suppression function operating voltage individually.		2014/04/03
patent	1129	Energy	Active materials for rechargeable lithium batteries, negative electrodes for batteries, and batteries	Senior Research Professor (retired)	The cycle properties of rechargeable lithium ion batteries (discharged capacity retention rate/cycle) were greatly improved by forming an amorphous film produced with the electro-deposition process with Si, O, and C as its main constituents in an electrical power collector as a negative electrode active substance. The manufacturing process for forming the plating is also simple.		2014/04/03
patent	615	Manufacturing Technology	Timber modifying method and timber modified thereby	Guest Professor (retired) Faculty of Science and Engineering Waseda Research Institute for Science and Engineering	This invention keeps various types of medicinal substances that have been coated or immersed during timber modification, from being leached by water. It improves durability while maintaining the unique exterior and degree of humidity of timber. It also enables the use of timber in areas that it had not previously been used in for legal reasons, and is expected to contribute to expanding the demand for timber and reforestation in Japan.		2014/04/03
patent	797	Manufacturing Technology	Composition for cutting and grinding, cutting and grinding oil, cutting and grinding wheel and surface treatment material	Professor (retired)	This invention disperses mineral micro-particles which have an extremely low environmental load in cutting and grinding oil, etc. or attaches them to the surfaces of working tools for machining, in order to contribute to improving machining accuracy and tool life.		2014/04/03
patent	806	Manufacturing Technology	Modifier providing organic polymer products with self-extinguishing properties, method of use of the modifier, and ors having self-extinguishing properties	Guest Professor (retired) Faculty of Science and Engineering Waseda Research Institute for Science and Engineering	This invention can provide organic polymer products such as plastic, rubber, wood, paper, etc. with self-extinguishing properties simply and at a low cost, without reducing the physical properties of the products. It does not use substances such as halogen compounds, etc. which generate toxic gases when there is a fire so it has an extremely small impact on the environment. It can be used in all industries that employ organic polymer products, and it is expected to be used in the housing industry and auto industry in particular.		2014/04/03
patent	1038	Manufacturing Technology	Mold manufacturing method and the molds formed using the method	Professor Faculty of Science and Engineering School of Advanced Science and Engineering Department of Applied Chemistry	This invention provides an electrolytic thick-film metal mold with the feature that the adhesive force between the electroless nickel (Ni) plated film formed on the self-assembled film and the inorganic thin film on the substrate is greater than 10MPa and less than 50MPa. Embedding is also possible with nano-sized patterns and the shapes of three-dimensional structures.		2014/04/03
patent	1231	Manufacturing Technology	Flapping robot	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering Department of Electronic and Photonic Systems	This invention is a compact unmanned aerial vehicle (or micro aerial vehicle (MAV)) which performs a flapping motion, and can freely change the angle of its flapping and feathering.		2014/04/03
patent	203	Social	Distortion correction method	Vice-President (retired) Faculty of Science and Engineering School of Advanced Science and Engineering Department of Applied Physics	In image measurement using digital cameras, this is a method for correcting distortion in camera lens, thereby enabling highly precise shape measurement.		2014/04/03

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patent	204	Social	Method of measuring dimension and shape using digital camera	Vice-President (retired) Faculty of Science and Engineering School of Advanced Science and Engineering Department of Applied Physics	In image measurement using digital cameras, this is a method for extracting the measurement points from data of images shot such as the corners of buildings, correcting lens distortion using those coordinate values, and measuring dimensions and shapes.		2014/04/03
patent	2861	Life sciences	構造体、および構造体の製造方法	Professor Faculty of Science and Engineering Graduate School of Information, Production, and Systems			2025/01/07
patent	2845	Life sciences	センサシステム、センサ、リーダ、および測定方法	Professor Faculty of Science and Engineering Graduate School of Information, Production, and Systems			2024/12/05
patent	2837	Life sciences	共培養デバイスおよびその使用	Associate Professor Faculty of Science and Engineering School of Fundamental Science and Engineering			2024/12/03
patent	2809	Life sciences	眼屈折力検査装置及び眼屈折力検査方法	Associate Professor Faculty of Human Sciences School of Human Sciences			2024/10/01
patent	2789	Life sciences	切り紙グリッパー	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering			2024/07/05
patent	2622	Life sciences	ヒートポンプ用性能モニタリング装置	Associate Professor (retired) Affiliated organization Waseda Institute for Advanced Study			2023/03/09
patent	2535DIV	Life sciences	医療システム及びそれを実行する方法	Professor Faculty of Human Sciences School of Human Sciences		特開2022-68362	2022/06/13
patent	2489	Life sciences	医療システム及びそれを実行する方法	Professor Faculty of Human Sciences School of Human Sciences		特開2022-42008	2022/05/02
patent	2446	Life sciences	自立膜、積層シート、及び自立膜の製造方法	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第7424652号	2022/01/31
patent	2335	Life sciences	胚盤胞形成促進剤	Professor Faculty of Human Sciences School of Human Sciences		特許第7505691号	2021/11/10
patent	2421	Life sciences	チップ固有乱数発生装置	Professor (retired) Faculty of Science and Engineering Graduate School of Information, Production, and Systems		特許第7575734号	2021/11/10
patent	2263	Life sciences	異種接合材の純モード　層間破壊靱性評価試験法の開発	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering	◆ DCB試験の応用 ◆ 異種材接合に伴う混合モードの影響を除去◆ 熱残留応力の影響をキャンセル◆ 正確なモードⅠ層間破壊靱性の評価	特許第7279880号	2021/06/07

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patent	2354	Life sciences	光スイッチ	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第7491565号	2021/01/12
patent	2062	Life sciences	生体外で創る血管病モデルと薬剤スクリーニングへの応用	Faculty of Science and Engineering Waseda Research Institute for Science and Engineering	患者の血管病の病態に近似し、簡便かつ短期間で作製 可能で、血管組織が正常から病態へと経時間的に変化す るプロセスを解明することが可能な、ex vivoの疾患モ デルの作製方法を確立し、血管病の予防又は治療のため の薬剤のスクリーニングに利用可能な疾患モデルを提供 することを課題とする。	特開2020-31538	2020/04/14
patent	2053	Life sciences	チキソトロピー性を有するゲルを用いる多層3次元細胞培養足場システム	Professor Faculty of Science and Engineering School of Advanced Science and Engineering			2019/04/19
patent	1907	Life sciences	アストロサイト分化促進用組成物	Professor Faculty of Science and Engineering		特許第6883845号	2018/11/13
patent	1903	Life sciences	最適特性を有する非天然型タンパク質の製造方法	Professor Faculty of Science and Engineering		特許第6917050号	2018/10/08
patent	1889	Life sciences	ニューレグリン１α様活性を有するポリペプチド及び糖尿病治療用医薬組成物	Professor Faculty of Science and Engineering		特許第6869530号	2018/09/12
patent	1860	Life sciences	フェルラ酸誘導体含有組成物及びその製造方法	Professor Faculty of Science and Engineering	本発明は、フェルラ酸誘導体を含有する医薬組成物及び食品組成物等の組成物及びその製造方法に関するものである。	特許第6792753号	2018/07/13
patent	1808	Life sciences	皮膚表面ｐHの測定法	Senior Research Professor (retired)	■動物（ヒト、イヌ、ネコ、サルなど）の皮膚表面のｐHを測定する方法。	第6692542号	2016/06/06
patent	2864	Information	量子計算システム及び量子計算方法	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering			2025/03/04
patent	2895	Information	液体センサ	Professor Faculty of Science and Engineering School of Advanced Science and Engineering			2025/03/03
patent	2834	Information	ニューラルネットワークのトレーニング方法、クのトレーニングアーキテクチャ及びプログラム	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering Department of Computer Science and Engineering			2025/02/04
patent	2827	Information	量子ビット素子および量子ビット素子の製造方法	Professor Faculty of Science and Engineering School of Advanced Science and Engineering			2025/01/07
patent	2852	Information	圧電膜及び該圧電膜を用いた周波数フィルタ	Professor Faculty of Science and Engineering School of Advanced Science and Engineering			2024/11/06
patent	2812	Information	光信号受信器及び光信号受信方法	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering			2024/11/06
patent	2769	Information	光学素子および空中映像投影装置	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering			2024/07/29

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patent	2230	Information	音声対話システムにおける発話タイミング制御	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering Department of Computer Science and Engineering	システム発話タイミング検出手段は、ユーザの発話権維持又は譲渡/放棄かをパターン認識処理により逐次推定し、次発話準備手段は、システム発話タイミング検出手段と非同期、かつ開始タイミング検出前に、システムの次発話の内容データを準備する。そして、システム発話の開始タイミングの検出後に、次発話準備手段により準備された次発話を用いて、遅れなくシステム発話を再生する対話システムである。	特許第7274210号	2021/09/06
patent	2212	Information	3D高精細CG画像の高速レンダリング（煙、炎等の反射を高速描画）	Professor Faculty of Science and Engineering School of Advanced Science and Engineering	非均一関与媒質が物体の表面に反射して見える映り込みを計算するレンダリング方法であり◆ 煙や炎を含む三次元領域をスライス状の面光源の重なりと見なす　◆ 各スライスが照らす明るさは解析的かつ瞬時に計算可能◆ 媒質を伝わる光の間接照明効果を効率的かつリアルに表現可能	特許第7302862	2021/04/09
patent	2237	Information	電気機器の動作監視、異常検出方法	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering	動作部と制御部を有する電気機器(フライホイール等)の制御状態監視方式であり、状態データ（制御信号等）を用いて、動作部が所定の目的状態(【例】X,100回転での運転 / Y:70回転での運転)であることを示す特徴データ(尤度等)をパターン認識により得て抽出する状態推定器と、その特徴データを用いて、①クラス識別、②外れ値検知、③新規性検知のいずれかの処理を実行し、動作制御の異常の有無や程度を示すスコアを出力する異常検知器とを設け、動作状態推定と異常検知とを二段階で行う構成とした。”	特許第7473890号	2021/03/24
patent	2357	Information	レーザービームスキャナ	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第7530099号	2021/03/15
patent	2305	Information	異物探知システム	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering		特許第7461594号	2020/04/14
patent	2225	Information	複数の視野外障害物を検知するシステム	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering		特許第7348634号	2019/11/08
patent	2060	Information	検出方法及び検出装置	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering		特許第7136439号	2018/07/13
patent	334JP	Information	ハードウェアトロイの検出方法、検出プログラム、および検出装置	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering		第6566576号	2018/05/17
patent	2807	Environment	積層体の解体方法	Professor Faculty of Science and Engineering School of Creative Science and Engineering			2024/11/06
patent	2764	Environment	分離方法及びリチウムイオン二次電池用電極活物質のリサイクル方法	Professor Faculty of Science and Engineering School of Creative Science and Engineering			2024/07/05
patent	2663	Environment	情報処理装置、探査装置およびプログラム	Professor Faculty of Science and Engineering School of Creative Science and Engineering			2023/07/14
patent	2347	Environment	細線を用いた電気パルス解体方法（手作業解体からの解放に向けて）	Professor Faculty of Science and Engineering School of Creative Science and Engineering	少なくとも２個の部材が接合されてなる対象物の表面の一部分に導電性材料を接触させ、大気中で前記導電性材料に高電圧パルスを印加して衝撃波を発生させて、前記対象物の接合部位に衝撃波を作用させることで前記対象物の部材同士を剥離させる、対象物の解体方法。	特許第7572667号	2022/03/01

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patent	2262	Environment	排気浄化システムおよび排気浄化方法	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第7231578号	2021/11/10
patent	2261	Environment	排気浄化システム	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第7393098号	2021/10/11
patent	2416	Environment	空気中の二酸化炭素を除去する方法	Junior Researcher (retired) Faculty of Science and Engineering Waseda Research Institute for Science and Engineering			2021/06/23
patent	2205	Environment	二酸化炭素の固定化方法	Professor Faculty of Science and Engineering School of Creative Science and Engineering		特許第7313002号	2020/11/09
patent	1334	Environment Social	高感度コンプトンカメラ	Professor Faculty of Science and Engineering School of Advanced Science and Engineering Department of Applied Physics	高感度で容易に携帯可能なガンマ線撮影用のコンプトンカメラです。	特許第5991519号	2014/06/19
patent	1102	Environment Social	アルミニウム合金選別システム	Professor (retired) Faculty of Science and Engineering School of Creative Science and Engineering	合金系別にアルミニウム合金を判別し回収出来るシステムです。アルミニウムあるいはアルミニウム合金は、省資源化と低コスト化の観点からリサイクルされています。迅速かつ大量にアルミニウムおよびアルミニウム合金を他の金属から選別して回収する中で、アルミニウム合金は添加される金属ごとに合金種が異なり、その用途も異なるために合金系別にアルミニウム合金の判別そして回収が必要です。	第5562193号	2014/06/18
patent	149JP	Environment	重金属不溶化剤	淳司 山崎 教授 理工学術院 創造理工学部 環境資源工学科	天然鉱物由来の新しい重金属溶出抑制剤、還元機能を有する為、６価クロム、砒素、セレンなどの溶出抑制にも利用できる。	第5697334号	2014/06/10
patent	2577	Nanotechnology / Materials	ファイバレーザ装置、光ファイバ共振器及びその製造方法	Professor Faculty of Science and Engineering School of Advanced Science and Engineering			2025/03/03
patent	2851	Nanotechnology / Materials	CNT膜の製造方法およびCNT膜	Professor Faculty of Science and Engineering School of Creative Science and Engineering			2025/01/07
patent	2799	Nanotechnology / Materials	データ処理方法、データ処理装置、及びデータ処理プログラム	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering			2024/09/03
patent	2790	Nanotechnology / Materials	六角筒連続体の製造方法	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering			2024/07/05
patent	2414	Nanotechnology / Materials	窒化ホウ素ナノチューブ（BNNT）の新規製造方法	Professor Faculty of Science and Engineering School of Advanced Science and Engineering	◆ 新規なBNNTの製造方法　　一ホウ酸蒸気を用いたCVD法による製造方法	特許第7510173号	2021/10/11
patent	2294	Nanotechnology / Materials	一酸化炭素の生成方法、前駆体の製造方法およびケミカルルーピングシステム用材料	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第7491505号	2021/09/06

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patent	2177	Nanotechnology / Materials	重金属類吸着剤およびその製造方法	Professor Faculty of Science and Engineering School of Creative Science and Engineering	自然由来土壌、工場跡地等及び廃棄物焼却灰から溶出する重金属類を吸着して不溶化剤として作用する重金属類吸着剤、不溶化剤およびその製造方法に関するものである。	特許6818330号	2021/04/20
patent	2217	Nanotechnology / Materials	正極材および蓄電デバイス	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第7202570号	2021/01/22
patent	2291	Nanotechnology / Materials	CNT-PSS透明導電膜：簡易・柔軟・低抵抗・安定	Professor Faculty of Science and Engineering School of Advanced Science and Engineering	◆ PSS水溶液にCNTを分散させて製膜する だけの簡易な手法の提供 ◆ 低抵抗(115 Ω/sq)、高透過率(90%)、 高い耐久性(>1000 h)、耐熱性(250 ☒C)を実現	特許第7535728号	2020/11/12
patent	2316	Nanotechnology / Materials	ダイヤモンド電界効果トランジスタ及びその製造方法	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering		特許第7491547号	2020/11/12
patent	2127	Nanotechnology / Materials	ポリマー、電極活物質及び二次電池	Professor Faculty of Science and Engineering School of Advanced Science and Engineering			2020/06/17
patent	2214	Nanotechnology / Materials	カーボンナノチューブの製造装置および製造方法	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第7158646号	2019/10/16
patent	2039	Nanotechnology / Materials	ノーマリオフ動作ダイヤモンド電力素子及びこれを用いたインバータ	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering		第7017016号	2018/04/18
patent	1931	Nanotechnology / Materials	組電池、電池モジュールおよび電池モジュールの評価方法	Senior Research Professor (retired)		第6561407号	2017/06/23
patent	1923	Nanotechnology / Materials	トランス及び該トランスを用いたレクテナ	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第6955747号	2017/06/23
patent	1870	Nanotechnology / Materials	二次電池	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第6860125号	2017/03/10
patent	1843	Nanotechnology / Materials	トランジスタの製造方法及びセンサ素子	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering		特許第6205017号	2017/03/06
patent	1618	Nanotechnology / Materials	テーパ光ファイバの製造方法	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第6448408号	2017/03/06
patent	1827	Nanotechnology / Materials	曲げ変形および伸縮変形可能な電子デバイス	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering		第6773956号	2016/07/05
patent	1828	Nanotechnology / Materials	視覚的質感提示デバイスおよび視覚的質感提示方法	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering		第6749630号	2016/07/05

type of seeds	number	field	title	researcher	summary	patent number	posted
patent	1782	Nanotechnology / Materials	電力素子	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering		第6712735	2016/04/08
patent	2198	Energy	重合体、硬化性組成物、硬化膜及び重合体の製造方法	Senior Research Professor (retired) Faculty of Science and Engineering Waseda Research Institute for Science and Engineering			2019/10/16
patent	2839	Manufacturing Technology	チェーン構造体	Professor Faculty of Science and Engineering Graduate School of Information, Production, and Systems			2025/03/03
patent	2360	Manufacturing Technology	複合材料（CFRP）を用いた曲面の製造方法、製造システム	Senior Researcher (retired) Faculty of Science and Engineering Waseda Research Institute for Science and Engineering		特許第7523044号	2022/05/06
patent	2281	Manufacturing Technology	酢酸の製造方法	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第7636747号	2022/05/02
patent	2268	Manufacturing Technology	アルケン及び／又はアルカンの濃縮方法並びに濃縮装置	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第7586647号	2021/10/11
patent	2243	Manufacturing Technology	見えない物質から心のストレスを見る	Guest Senior Researcher (retired) Research Council (Research Organization) Institute for Nanoscience & Nanotechnology	◆ 由来の異なる多数の医学的に重要なストレス物質信号を検出　◆ １チップ上の複数センサー信号から複数ストレス物質濃度を即時に推定◆ 日内変動，個人の特徴を考慮したストレスマネジメントフィードバック	特許第7276774号	2021/06/07
patent	2186	Manufacturing Technology	レドックスフロー電池システム	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第7232155号	2021/04/09
patent	2163	Manufacturing Technology	α－オレフィンの製造方法	Professor (retired) Faculty of Science and Engineering School of Advanced Science and Engineering		特許第7320216号	2021/01/22
patent	2216	Manufacturing Technology	イソブチレンの製造方法	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第7250277号	2020/12/08
patent	2179	Manufacturing Technology	エチレンの分離方法	Professor Faculty of Science and Engineering School of Advanced Science and Engineering		特許第7245699号	2020/11/09
patent	2086	Manufacturing Technology	微細なハイドロタルサイトを含有する吸着剤の製造方法	Professor Faculty of Science and Engineering School of Advanced Science and Engineering			2019/09/13

type of seeds	number	field	title	researcher	summary	patent number	posted
patent	427JPDIV	Manufacturing Technology	電極接続方法及び電極接続構造	Professor (retired) Faculty of Science and Engineering Graduate School of Information, Production, and Systems		第6667765号	2019/07/05
patent	1862	Manufacturing Technology	３Ｄナノ構造界面を有する異種材直接接合	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering	◆ 熱可塑性炭素繊維強化複合材料(CFRTP)の自動車車体への適用及び、生産性，リサイクル性，燃費の向上◆ マルチマテリアル化によるCFRTPとアルミニウム合金(Al)の接合技術開発◆ Al表面上のナノスパイク構造(NSS)の作製◆ CFRTPとAlのホットプレスによる直接接合◆ シランカップリング処理による接着強度の向上	特許第6809680号	2018/05/24
patent	1744	Manufacturing Technology	ポーラス構造体の製造中間体及び方法	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering Department of Applied Mechanics and Aerospace Engineering		特許第6829373号	2017/10/25
patent	1910	Manufacturing Technology	羽ばたき型飛行機	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering Department of Electronic and Photonic Systems		特許第6831566号	2017/06/23
patent	2869	Social	熱電発電デバイス用基板及び熱電発電デバイス	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering			2024/12/03
patent	2843	Social	被子植物の原形質流動活性化剤、成長促進剤、及び成長促進方法	Professor Faculty of Education and Integrated Arts and Sciences School of Education			2024/12/03
patent	2806	Social	触覚センサ及び触覚センシングシステム				2024/08/05
patent	2787	Social	知覚支援システム、評価装置及びそのプログラム	Professor Faculty of Science and Engineering School of Creative Science and Engineering			2024/07/05
patent	2645	Social	人間の動きを先読みできるロボット	Guest Senior Researcher Faculty of Science and Engineering Waseda Research Institute for Science and Engineering	このシーズは、ロボットが人間と協働して効率的に作業を行うための動作制御システムで、主な特徴は以下の通り。①人間の行動推定: 人間の位置情報や速度情報の時間的変化を解析し、タスクに対する行動を推定。②動作計画: 推定結果に基づき、ロボットの通常行動、依頼行動（ロボットがタスクを人間に依頼）、支援行動（ロボットが人間を支援）の中から最適な行動を選択。③協働作業コスト: タスクごとの負荷を計算し、作業の効率を最大化。④柔軟性: 状況に応じてリアルタイムで動作を調整。	特開2024-162293	2023/07/06
patent	2641	Social	歩行補助装置	Professor Faculty of Science and Engineering Graduate School of Information, Production, and Systems		特開2024-125944	2023/05/10
patent	2591	Social	待機・迂回を含む後退的行動と接近・接触を含む前進的行動を併せ持つ自律移動ロボットの統合的軌道計画	Guest Senior Researcher Faculty of Science and Engineering Waseda Research Institute for Science and Engineering		特開2024-029789	2022/10/07

type of seeds	number	field	title	researcher	summary	patent number	posted
patent	2515	Social	照射線量推定装置および照射線量推定方法	Professor Faculty of Science and Engineering School of Advanced Science and Engineering Department of Applied Physics		特許第7461664号	2022/05/02
patent	2462	Social	運動促進用超小型軽量ハプティック式歩行補助シューズ	Professor Faculty of Science and Engineering Graduate School of Information, Production, and Systems	世界最小最軽量の歩行補助機。モータ等のアクチュエータを使用せず、振動スピーカを足裏（母指球下）と足の甲（中足骨上）に備え、 非対称波形の振動を適切なタイミングでそれぞれ出力する。すると力の補助はしないが靴が足の底背屈動作を促し、使用者自身の力で地面を蹴り、つま先を上げるので歩行運動を促進する。	特開2023-77151	2022/01/17
patent	2505	Social	僧帽弁を基点とした傍胸骨左縁左室長軸像探索手法	Professor Faculty of Science and Engineering School of Creative Science and Engineering		特開2023-70601	2021/12/08
patent	2504	Social	心エコー検査ロボット	Professor Faculty of Science and Engineering School of Creative Science and Engineering			2021/12/08
patent	2484	Social	目的地周辺の人の位置やロボットのタスク内容等に合わせて適切なゴール位置を動的探索するシステム	Guest Senior Researcher Faculty of Science and Engineering Waseda Research Institute for Science and Engineering		特開2023-32381	2021/10/12
patent	2485	Social	接触力と連続的な剪断力を提示可能な3軸ウェアラブルハプティックデバイス	Guest Senior Researcher Faculty of Science and Engineering Waseda Research Institute for Science and Engineering		特開2023-28681	2021/09/06
patent	2457	Social	病変状態を模擬した心臓弁等の臓器モデルの作製	Professor Faculty of Science and Engineering Graduate School of Advanced Science and Engineering Cooperative Major in Advanced Biomedical Sciences		特許第7603316号	2021/05/14
patent	2387	Social	自律移動サービスロボットのための先導・追従行動計画システム	Guest Senior Researcher Faculty of Science and Engineering Waseda Research Institute for Science and Engineering	本発明は、所定の目的地まで歩行者等の移動対象を先導し、また、荷物運搬や警護等のために移動対象に追従するタスクを行うための自律移動ロボット、並びに、その制御装置及び制御プログラムに関するものであり、混雑した空間内において想定される様々な不測の事態に対応しながら、サービスタスクを継続させられることを特長とする行動計画手法である。	特許第7478393号	2020/11/09
patent	2392	Social	クラッチ機構を用いた動的重力補償ロボットシステム	Guest Senior Researcher Faculty of Science and Engineering Graduate School of Creative Science and Engineering		特許第7502781号	2020/11/09
patent	2363	Social	歩行者の移動予測技術およびそれに基づく移動ロボットの経路計画アルゴリズム	Guest Senior Researcher Faculty of Science and Engineering Waseda Research Institute for Science and Engineering	本発明は、人の速度ベクトルの測定誤差と将来的な速度ベクトルが現在の値を保持するかを示す保持可能性を考慮することで，軌道計画のロバスト化を目指した経路計画アルゴリズムを提案するものである。人の速度ベクトルの測定誤差と保持可能性を考慮した働きかけのタイミングの決定および人とロボットが互いに避けるために必要となる回避量の調整、さらに、安全に人を回避するための枠組みとして行動の制限を行う。	特許第7525854号	2020/08/21
patent	2321	Social Information	ロボットになりきるための遠隔操縦システム	Junior Researcher (retired) Faculty of Science and Engineering Waseda Research Institute for Science and Engineering	本シーズは、人間の高い運動安定能力を生かしたロボット操縦を可能とするため、ロボットやバーチャルキャラクターといった操縦対象の行動時の安定維持に必要な情報として視覚や足裏力覚情報などを操縦者が理解しやすいよう変換して提示し、さらに操縦者と操縦対象の身体の大きさや重さ・運動能力といった身体的ズレを補正した操縦指令を生成することにより、効果的な操縦を実現する。	特許第7444389号	2020/06/17

type of seeds	number	field	title	researcher	summary	patent number	posted
patent	2356	Social	複数人移動予測に基づく混雑環境下でのロボットの接近・接触移動技術	Guest Senior Researcher Faculty of Science and Engineering Waseda Research Institute for Science and Engineering	混雑環境下で自律移動するロボットの経路生成に適した周囲の人間等を含む移動予測モデルを構築し、ロボットの移動効率と周囲の人間等に与える負担を考慮しながら、最適な移動経路を生成することができるロボット、移動経路生成装置及びそのプログラム、並びに、移動予測装置を提供する。	特許第7490193号	2020/06/17
patent	2252	Social	心臓弁尖作製用機器で作成した弁、縫合ガイド、および、弁尖作製用機器	Professor Faculty of Science and Engineering Graduate School of Advanced Science and Engineering Cooperative Major in Advanced Biomedical Sciences			2019/12/11
patent	2247	Social	自己伸展型長尺構造物	Professor Faculty of Science and Engineering Waseda Research Institute for Science and Engineering		特許第7319629号	2019/10/16
patent	2246	Social	妊婦超音波検査ロボットにおける画像鮮明性を維持可能な腹部非下降走査デバイス	Professor Faculty of Science and Engineering School of Creative Science and Engineering		特許第7270928号	2019/10/16
patent	2220	Social	ドライバーの状況認識推定・安全運転システム	Guest Senior Researcher Faculty of Science and Engineering Waseda Research Institute for Science and Engineering	本発明は、状況認識推定システム及び運転支援システムに係り、更に詳しくは、所定の対象者の周囲を相対移動する認識対象物について、その対象者が適切に認識しているか否かを推定する状況認識推定システム、及び当該状況認識推定システムを利用して、対象者による自動車等の移動体の運転支援を行う運転支援システムに関する。	特許第7432198号	2019/07/30
patent	2182	Social	MR流体を用いた逆可動性を有する小型パワフルアクチュエータ	Guest Senior Researcher Faculty of Science and Engineering Waseda Research Institute for Science and Engineering	人の代替労働力・サポート手段として活躍が期待されるロボットのアクチュエータには、高出力性や高応答性、機構的高柔軟性、堅牢性、良制御性、高エネルギー効率といった諸特性を兼ね備えることが求められている。本シーズは、特に，高出力性と逆可動性という特長を有する磁気粘性流体（MR流体）を用いた流体駆動アクチュエータを提供することができる。	特許第7203379号	2019/07/05
patent	2067	Social	心電モニタリングシステム	Professor Faculty of Science and Engineering School of Creative Science and Engineering		特許第7096565号	2018/06/13
patent	1991	Social	超音波プローブ移動装置	Professor Faculty of Science and Engineering School of Creative Science and Engineering		第7014383号	2018/01/15
patent	1986	Social	「ロボットから人への意図伝達度」に着目した移動ロボットの行動戦略	Guest Senior Researcher Faculty of Science and Engineering Waseda Research Institute for Science and Engineering	移動体と移動障害物との協調移動のために，「ロボットから人への意図伝達度」に着目した人状態推定手法を開発し，双方の動作結果を踏まえた連続的な働きかけ手法を提案する．ロボットのすれ違い幅から働きかけの必要性を判定する「干渉度」，人のロボットに対する認知の有無を判断する「認知度」，ロボットの働きかけがどの程度達成されたかを計算し，再度の働きかけ必要性を判断する「働きかけ達成度」で構成されている．	7036399	2018/01/15
patent	1913	Social	能動的接触力調整エンドエフェクタ	Faculty of Science and Engineering		特許第6916500号	2017/06/20
patent	1912	Social	停電時の安全性を持つ可変トルクリミッタ	Guest Senior Researcher Faculty of Science and Engineering Graduate School of Creative Science and Engineering		特許第6866981号	2017/06/20
patent	1911	Social	可変トルクリミットアクチュエータの制御システム	Guest Senior Researcher Faculty of Science and Engineering Graduate School of Creative Science and Engineering		7028410	2017/06/20

type of seeds	number	field	title	researcher	summary	patent number	posted
patent	1616	Social	MR流体を用いたバックドライバブルアクチュエータ	Guest Senior Researcher Faculty of Science and Engineering Waseda Research Institute for Science and Engineering	高応答・高出力・安全性が求められる次世代のロボットシステムには、予期しない外力の付与に対して迅速に応答可能な柔軟性を有する新たなアクチュエータが要請されている。本シーズは、応答時間の短縮化を図るとともに、比較的簡易な構成で柔軟性を発揮させることができるバックドライバブルアクチュエータを提供することにある。	特許第6493962号	2017/02/20
patent	1872	Social	MR流体を用いた逆可動性を有するロータリアクチュエータ	Guest Senior Researcher Faculty of Science and Engineering Waseda Research Institute for Science and Engineering	高応答・高出力・安全性が求められる次世代のロボットシステムには，予期しない外力の付与に対しても迅速に応答可能な柔軟性を有する新たなアクチュエータが要請されている。本シーズは，応答時間の短縮化を図るとともに，比較的簡易な構成で本質的な柔軟性を発揮させることができる逆可能型のロータリアクチュエータを提供することにある。	特許第6863562号	2016/12/06
patent	1804	Social	歯磨きロボット	Professor Faculty of Science and Engineering		第6675733号	2016/04/11
patent	1569	Social	創造的人工脳	Professor Faculty of Science and Engineering School of Fundamental Science and Engineering	従来型コンピュータは将棋チェスをするものや入試問題を解くものも含めてどれも、決められた仕事を早くこなすためのものであった。ヒトのようなアイデアを出せる人工知能を目指す第一歩として、ヒトの脳の神経細胞群の結合様式（空間パターン）を実験的に解明する研究が進められているが不明であった。そこで、化学反応論と分子生物学のデータを体系的に分析したところ、その解明ができた。	特許第6367631号	2016/03/18
patent	1556	Social	半側空間無視の注意再獲得支援システム	Professor Faculty of Science and Engineering School of Creative Science and Engineering	半側空間無視患者に対するリハビリテーションを支援するためのシステムであり、訓練用画像内の一部領域のみを視認可能にするスリット領域を移動、拡大させるように訓練者に提示することで、訓練者の訓練用画像に対する注意部分を移動させる。これにより、訓練者は、「固定」、「解放」、「移動」の各能力を増進させることが可能になる。	特許第6308464号	2016/01/06
patent	1749	Social	血液濾過器の流れの可視化試験装置	Professor Faculty of Science and Engineering Graduate School of Advanced Science and Engineering Cooperative Major in Advanced Biomedical Sciences		第6590278号	2015/11/05
patent	1488	Social	分散設置型インタラクティブ運動支援システム	Professor Faculty of Science and Engineering School of Creative Science and Engineering	参加者の運動を運動中に評価し、適切さについてのフィードバックを複数の画像などの感覚情報として与えることにより、参加者が運動の不適切さに気づき，自身で適切な運動を形作っていけるように誘引するシステム	特許第6270115号	2015/07/10
patent	2378	Frontier Nanotechnology / Materials	画像処理方法、画像処理装置、Ｘ線回折装置およびプログラム	Professor Faculty of Science and Engineering	本シーズは、データ分析で用いられる密度ベースクラスタリングを応用した画像処理技術に関します。本シーズによれば、平面画像を構成する各画素に対応する位置に各画素の画素値に応じた密度で点を配置し、それらの点に密度に基づくクラスタリングを実行することで、所望の画素値を有する画素が密に集まる領域を簡便に分離することが可能となります。	特願2022-73083	2022/07/11

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